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GRIFFITH & TURNER CO.

Farm and Garden Supplies

GENERAL OFFICES: 205-207-209 & 213.
N. PACA STREET.
BRANCH 116-118 LIGHT ST.

BALTIMORE

TO OUR FRIENDS:

We take this means of thanking you for the very liberal patronage in the past, and for your criticisms and comments which have tended to stimulate us to greater efforts in the future to meet the requirements of the trade. The truth of this we have endeavored to embody in this 20th Century Edition, which we present with our compliments.

Yours respectfully,

JOHN M. GRIFFITH, President.
M. S. GRIFFITH, Vice-President.

Griffith & Turner Company,

JOHN L. TURNER, Treasurer.
GEORGE W. HOBBS, Secretary.

Branch House, 116 and 118 Light Street.

205 TO 209 N. PACA STREET,

Cable Address, "Grifftурn, Baltimore."

BALTIMORE.

NOTICE.—We make a specialty of quoting on COMPLETE FARM OUTFITS. Send for prices.

SEED TABLET.

The Quantity of Seed Usually Sown to an Acre.

Asparagus	5 lbs.
Barley, broadcast	2 to 3 bush.
Beans, drawf, in drill	1 to 1½ bush.
Beans, pole, in hills	8 to 10 qts.
Beet, in drills	4 to 6 lbs.
Broom Corn, in hills	4 to 6 qts.
Buckwheat, broadcast	¾ bush.
Cabbage, in beds, to transplant	½ lb.
Carrot, in drills	2 to 3 lbs.
Celery, to transplant	½ lb.
Corn, in hills	8 qts.
Corn, for soiling	2 to 3 bus.
Clover, Alsike	12 lbs.
Clover, red, alone	15 lbs.
Clover, white, alone	12 lbs.
Clover, white, with other seeds	4 lbs.
Clover, Luzerne, alone	15 lbs.
Clover, scarlet	15 lbs.
Cucumber, in hills	2 lbs.
Flax, broadcast	1 to 2 bush.
Grass, blue, alone	28 lbs.
Grass, Hungarian	1 bush.
Grass, lawn	3 to 4 bush.
Grass, orchard	28 lbs.
Grass, red top	28 lbs.
Grass, R. I. Bent	3 bush.
Timothy	¼ bush.
Kale	4 to 6 lbs.
Millet	1 bush.
Melon, musk	1½ to 2 lbs.
Melon, water	2 to 3 lbs.
Mustard, broadcast	12 to 16 qts.
Mangoldwurzel	4 to 6 lbs.
Oats, broadcast	2 to 2½ bush.
Onions, in drills, to make large onions	6 to 8 lbs.
Onion Seeds, for small sets	40 to 60 lbs.
Parsnip, in drills	4 to 6 lbs.
Peas, early, in drill	1 bush.
Peas, Marrowfat, in drills	1¼ bush.
Peas, broadcast	2 to 3 bush.
Potato, cut tubers, in drills	8 bush.
Radish, in drills	6 to 8 lbs.
Radish, broadcast	10 lbs.
Rye, broadcast	1 bush.
Salsify, in drills	6 to 8 lbs.
Sorghum	10 to 12 lbs.
Spinach, in drill	12 to 15 lbs.
Squash (bush varieties), in hills	4 to 6 lbs.
Squash (running varieties), in hills	3 to 4 lbs.
Turnip, in drills	1 lb.
Turnip, broadcast	2 to 3 lbs.
Tomato, to transplant	¼ lb.
Vetches, broadcast	2 to 3 bush.
Wheat, broadcast	1½ to 2 bush.
Wheat, in drills	1 bush.

Clover, Timothy, Red Top — Together for 1 acre. — 8 lbs. Clover. 10 lbs. Timothy. 14 lbs. Red Top.

Quality of Seeds. **We do not sell the cheapest seeds, but make LOWEST PRICES consistent with quality. They will please you.**

Notice. The greatest care is taken to supply every article true to name and of the very best quality; at the same time it is mutually understood that we do not warrant our seeds, and that we are not in any respect responsible for any loss or damage arising from any failure thereof.

Orders **from unknown correspondents must be accompanied with the cash.**

SEEDS TRUE TO NAME.

The first consideration of the Farmer or Gardener in purchasing is whether he will **Secure Seeds True to Name.** Our exacting care in the selection of Seed Stocks, and having grown nothing but the **Best,** should be sufficient assurance that our **Seeds Are True to Name.**

Tested Seeds.

The **germination** of Seeds is the next consideration; therefore the Planter will appreciate the fact when we tell him that our **Seeds are all thoroughly** tested, and unless they **germinate** or sprout satisfactorily are discarded.

New Seeds Tested.

Although Seeds may be new and fresh, yet they **Should Be Tested Thoroughly,** as there is freqently a certain percentage **Blighted or Unripe;** consequently our system of always **Testing Seeds** before placing them on the market protects the customer from possible loss.

CASH DISCOUNTS ON

Griffith & Turner Co.'s

TESTED SEEDS.

12 5c. Packets for	-	-	-	**50 cts.**
25 5c. "	"	-	-	**$1.00**
6 10c. "	"	-	-	**50 cts.**
13 10c. "	"	-	-	**$1.00**
25 10c. "	"	-	-	**$2.00**

MAILED FREE ON RECEIPT OF AMOUNT

. . ALSO . .

Orders for Seeds in packets, and Peas, Beans and Corn in pints and quarts, amounting to **$5.00** at our regular Catalogue prices, will be filled for **$4.00** cash, and orders amounting to **$3.00** on the same basis for **$2.50** cash, purchaser in both cases paying expressage.

PRICES Subject to Change Without Notice.

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS OR LENGTH OF DRILLS,

Asparagus	1 oz. to 50 ft. drill.
Beet	1 oz. to 50 ft. drill.
Celery	1 oz. to 100 ft. drill.
Carrots	1 oz. to 100 ft. drill.
Endive	1 oz. to 150 ft. drill.
Egg Plant	1 oz. to 300 ft. drill.
Lettuce	1 oz. to 150 ft. drill.
Okra	4 oz. to 100 ft. drill.
Onion	1 oz. to 100 ft. drill.
Onion Sets, small	1 qt. to 100 ft. drill.
Parsley	1 oz. to 150 ft. drill.
Parsnip	3 oz. to 100 ft. drill.
Radish	2 oz. to 100 ft. drill.
Salsify	1 oz. to 70 ft. drill.
Spinach	2 oz. to 100 ft. drill.
Turnip	1 oz. to 150 ft. drill.
Peas	1 qt. to 100 ft. drill.
Drawf Beans	1 qt. to 100 ft. drill.
Leek	1 oz. to 100 ft. drill.
Pole Beans	1 qt. to 150 hill.
Corn	1 qt. to 200 hill.
Cucumber	1 oz. to 50 hills.
Watermelon	1 oz. to 30 hills.
Muskmelon	1 oz. to 60 hills.
Pumpkin	1 oz. to 40 hills.
Early Squash	1 oz. to 50 hills.
Marrow Squash	1 oz. to 16 hills.
Cabbage	1 oz. of seed will produce 2,000 plants.
Cauliflower	1 oz. of seed will produce 2,000 plants.
Celery	1 oz. of seed will produce 3,000 plants.
Egg Plant	1 oz. of seed will produce 1,000 plants.
Lettuce	1 oz. of seed will produce 3,000 plants.
Pepper	1 oz. of seed will produce 1,000 plants.
Tomato	1 oz. of seed will produce 1,500 plants.

FILLING ORDERS.

Every order is filled and forwarded as promptly as posssible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

Packing and Shipping. We make no charge for boxes or packing of retail orders, and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags as follows: Peck and ½ bushel, 10 cents each; 1 bushel, 15 cents each; 2 bushels, 20 cents each.

How to Remit. Remittances should be made by Draft, Express Money Order, P. O. Money Order or Registered Letter.

We deliver FREE, to any P. O. in the U. S.,

All Vegetables and Flower Seeds,

By the Packet, Ounce or Quarter Pound. On quantites over quarter pound the purchaser pays the postage at a rate of 8 cents per pound. On Beans, Peas and Corn, 8 cents per pint or 15 cents per quart should be added to Catalogue Price to pay postage.

On Every Order Be sure to sign your name and give your address plainly, as we frequently receive orders lacking either or both; also give full shipping instructions.

PRICES TO MARKET GARDENERS.

Market Gardeners and all other purchasers of Seeds in large quantites, should send for our Special prices.

PRESS OF FLEET, McGINLEY & CO., BALTIMORE.

GRIFFITH & TURNER CO'S.

GENERAL LIST OF VEGETABLE SEEDS

TESTED and RELIABLE

COUNTRY MERCHANTS

Send for Our WHOLESALE TRADE PRICE LIST FOR 1901.

Prices Subject to Change Without Notice. Orders Accepted Subject to Goods Being Unsold.

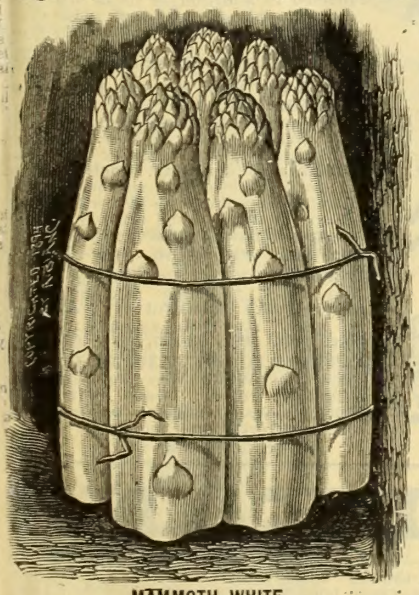
PREMIUMS to every purchaser of Seeds in Packets. The Purchaser may select 60c. worth of Seeds for 50c., and anyone sending us $1.00 can select SEEDS IN PACKETS amounting to $1.25; for $2.00, seeds in packets to the value of $2.50. Postage prepaid.

ASPARAGUS, German, Spargel. Etc.

THIS is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or in the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four to five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row. Thin to nine inches in the row.

MAMMOTH WHITE ASPARAGUS.—In addition to the marvelous advantage of its white color, the Columbian Mammoth White Asparagus is even more robust and vigorous in habit and throws larger shoots, and fully as many of them, as the Conover's Colossal. When we add to these the immense advantage of its needing no earthing up in order to furnish the white shoots so much sought after, we think it evident that it is snperior to any sort now in cultivation, and that no asparagus grower can afford to plant seed of any other kind. Market gardeners, growers for canners and amateurs should give this great acquisition a thorough trial.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.



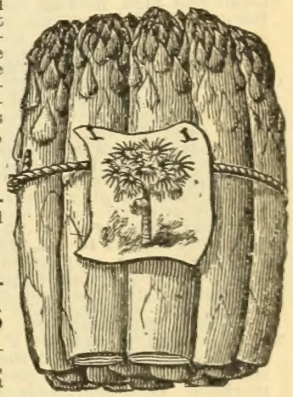
MAMMOTH WHITE.

BARR'S MAMMOTH.—This splendid variety, highly recommended for its many good qualities, is very productive and about ten days earlier than Conover's Colossal. The stalks are very large and retain their thickness completely up to the top of the shoots; very tender and succulent; of delicious flavor. Grow very quickly and are light in color.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

PALMETTO ASPARAGUS.—This Asparagus, said to have originated in South Carolina, is now quite extensively grown by Southern gardeners for New York and Philadelphia markets, where it sells at very high prices, owing to its mammoth size and regularity. An average bunch of fifteen shoots will measure thirteen to fourteen inches in circumference. For several seasons this Asparagus has reached Northern markets ten days ahead of all other varieties, and sold at fabulous prices.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.



CONOVER'S COLOSSAL.—The old and well-known variety.

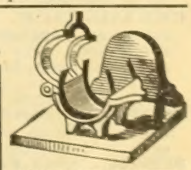
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

Asparagus Roots

A saving of one to two years is effected by planting roots A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 7,260 roots will plant an acre. Select good, loamy soil, plough deep, put in good quantity of manure, and 100 lbs. kainit to 1,000 square feet of bed. Incorporate thoroughly, make a trench 8 inches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart.

BARR'S MAMMOTH.—Per 100, 70c. By mail, $1.00. Per 1000, $4.00.
PAMMETTO.—Per 100, 60c. By mail, 90c. Per 1000, $3.50.
COLOSSAL.—Per 100, 60c. By mail, 90c. Per 1000, $3.50.
MAMMOTH WHITE.—Per 100, 75c. By mail, $1. Per 1000, $4.50.
Extra size roots 50c. per 1000 additional to above prices.

BEST ASPARAGUS BUNCHER.—$1.50.
ASPARAGUS KNIVES.—25c. By mail, 35c.



ASPARAGUS BUNCHER.

ARTICHOKES.

LARGE GREEN GLOBE.

This is a very nice vegetable to eat. Some prefer it cooked like asparagus, that is, take the flower head before it begins to open and cook much the same way as asparagus. **Pkt. 10c. Oz. 30c.**

JERUSALEM.

The tubers roasted, or boiled, served with butter, salt and pepper, makes a dish some think superior to potatoes. They are most excellent feed for cows and will cause an increase in quantity and quality of milk.

Pk. $1.00. Bu. $2.50.

DWARF BEANS.

One quart will plant 100 feet of drill.

Add 8c. per pint, or 15c. per quart, on all Beans if to be sent by mail.

Select light, warm soil, and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the beans about two inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

WHITE MARROWFAT.—Extensively grown for sale as a dry bean for winter use. **Qt. 15c. Pk. 75c. Bu. $2.75.**

WHITE NAVY.—A well known variety for field culture, very prolific. **Qt. 15c. Pk. 75c. Bu. $2.75.**

ALL KINDS OF MACHINERY REPAIRED.

BEANS.

DWARF, BUSH, OR SNAP.

DWARF GREEN PODDED.

EARLIEST MARKET.—This is well named, being the earliest Bean in existence, and therefore very profitable to the market gardener, and desirable to the private gardener as well. The pods are long, broad, green and very showy, reaching maturity in thirty days from germination, and the habit of vine very productive. **Qt. 30c. Pk. $1.75.**

TRIUMPH OF THE FRAME.—This variety is particularly adapted for forcing. Very dwarf, prolific and tender. **Pt. 25c. Qt. 50c.**

EXTRA EARLY REFUGEE.—It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier. It is enormously prolific, and from its earliness is almost certain to produce a crop, no matter how unfavorable the season. Is rapidly becoming a favorite sort, as it matures equally early with the Red Valentine, and has that beautiful silvery green color in the pods that is so much desired. **Qt. 25c. Pk. $1.50.**

EARLY REFUGEE, or BROWN VALENTINE.—Resembles the Red Valentine, but two weeks late; very productive. **Qt. 20c. Pk. $1.25.**

EARLY MOHAWK.—Qt. 20c. Pk. $1.25.

DWARF HORTICULTURAL.—A very fine green podded sort, used as a Shell Bean, and for this purpose is one of the finest in general use; long a favorite with those who use a Shell Bean in a green state.
Pt. 15c. Qt. 25c. Pk. $1.50.

BEST OF ALL.—One of the most valuable green podded sorts for family or market use. The pods are six inches long, very fleshy, succulent, stringless, and of rich flavor; they are produced early and abundantly.
Qt.25c. Pk. $1.50.

EMPEROR WILLIAM.—An extra early white variety of good quality. **Pkt. 15c. Qt. 25c. Pk. $1.50.**

LONG YELLOW SIX WEEKS.—Very early, hardy bean.
Qt. 25c. Pk. $1.25.

NEW STRINGLESS GREEN POD.—One of the earliest varieties, pods round and full, absolutely stringless and of beautiful fleshy appearance, quality excellent. The only green pod Bean of which the pods never develop any strings. **Qt. 30c. Pk. $1.75.**

EARLIEST RED VALENTINE.—Ten days earlier than the ordinary Red Valentine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean. The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, prolific, continuing long in edible condition. **Qt. 25c. Pk. $1.25.**

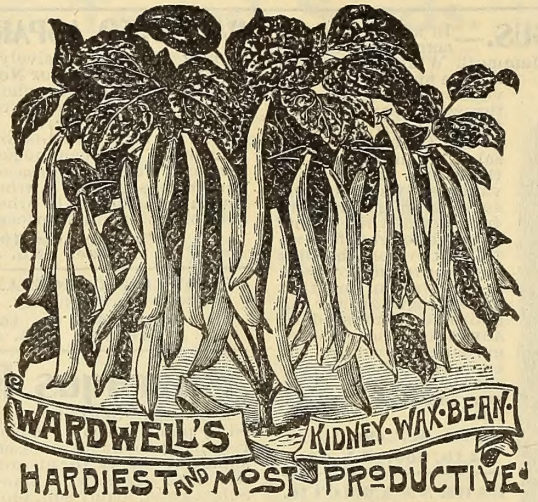
DWARF WAX PODDED.

NEW GOLDEN-EYED WAX.—This fine new Bush Bean is very early; the vine grows vigorously about one and a-half feet high, holding the pods off the ground. The pods are handsome, long, straight and flat, remarkably free from rust, and keeps well.
Qt. 25c. Pk. $1.50.

CURRIE'S RUST-PROOF BLACK WAX.—For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods, long, straight, flat and very meaty, of a beautiful golden color; quality not surpassed, and for productiveness unequaled.
Qt. 30c. Pk. $1.75.

DWARF PROLIFIC BLACK WAX.—Yellow pod; a very superior snap short, ripening among the first earlies, and having the best characteristics. Very tender.
Pt. 15c. Qt. 30c. Pk. $1.50.

WARDWELL'S KIDNEY WAX BEAN.—This is one of the best of the wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless, and of unusually fine quality. **Qt. 30c. Pk. $1.50.**



KEENEY'S RUSTLESS GOLDEN WAX (New).—A strong-growing bush variety of remarkable vigor and freedom from rust. It sends out short tendrils, on which pods are formed in addition to those near the central stalk of the plant, which accounts for its wonderful productiveness. The pods are meaty and well filled. **Pt.15c. Qt.25c. Pk.$1.75.**

IMPROVED RUST-PROOF GOLDEN WAX.—This is the earliest, handsomest and hardiest of all the Wax Beans. The pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rust-proof, and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers.
Qt. 30c. Pk. $1.50. Bu. $5.00.

DETROIT WAX.—Pods straight, flat, but thick to edge; broader than Golden Wax; beautiful wax color, and as nearly rust-proof as any.
Qt. 30c. Pk. $1.50. Bu. $5.00.

DAVIS' KIDNEY WHITE WAX.—The best White Wax Bean known. Vigorous grower, bears abundantly long, white, handsome pods, which are very crisp and tender.
Qt. 30c. Pk. $2.00.

POLE BEANS

Set the poles three or four feet apart, and plant six to eight beans, with the eyes downward, around each pole, thinning to four healthy plants when they are up. They require the same soil and treatment as the Dwarf vareities, with the exception that they crave stronger soil and do best in a sheltered location.

CREASE-BACK, or FAT HORSE.—A well-known and highly-esteemed Southern variety. Very productive. Forms very full, round pods, very fleshy, entirely stringless and distinctly creased along the back; hence its name. This variety is especially valuable for its extreme earliness and its habit of perfecting all of its pods at the same time. **Qt. 30c. Pk. $1.75.**

SOUTHERN PROLIFIC.—A splendid, vigorous and productive variety. Pods in clusters, succulent and delicious; matures quite early and continuous, bearing until frost. **Qt. 20c. Pk. $1.50.**

SPECKLED CUT-SHORT, or CORN-HILL.—An old variety, very popular for planting among corn, and will give a good crop, without the use of poles; vines medium, with dark-colored, smooth leaves; pods short, cylindrical and tender.
Pt. 15c. Qt. 30c. Pk. $1.75.

DUTCH CASE KNIFE.—Vines moderately vigorous, climbing well, but not twining so tightly as some, and so may be used for a corn hill bean. Leaves large, crumpled; blossoms white; pods very long, flat, irregular, green, but becoming cream white; beans broad, kidney shaped, flat, clear white, and of excellent quality, green or dry.
Pt. 15c. Qt. 40c. Pk. $1.75.

MARYLAND WHITE.—This new White Pole Bean is destined to take its place as one of the best Beans ever grown for general purposes. Its thick, meaty, green pods are very tender, rich in flavor, and produced in great abundance. It is equally valuable as a snap or shell bean. It has been grown in Maryland to a very limited extent for a few years, and those who have grown it once want it again. **Pt. 15c. Qt. 30c. Pk. $1.75.**

SPECKLED HORTICULTURAL, or WREN'S EGG.—An old favorite for both snap-shorts and dry beans. **Qt. 30c. Pk. $1.75.**

WHITE CHERRY.—Great favorite; used with or without pods.
Pt. 15c. Qt. 25c. Pk. $1.75.

LAZY WIFE.—Large, pale green pods, very thick meated, stringless, rich, tender and buttery; ripens early; clings well to the pole; enormously productive; splendid either as a snap or shell bean; retains its exquisite flavor until nearly ripe.
Pt. 15c. Qt. 30c. Pk. $2.00.

KENTUCKY WONDER.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 or 10 inches in length, nearly round when young, and very crisp. **Qt. 25c. Pk. $1.75.**

When Beans are to be sent by mail, add for postage 8 per pint and 15c. per quart.

WRITE FOR PRICES OF BEANS BY THE BUSHEL.

BUSH LIMA BEANS.

The Bush Lima Beans are rapidly gaining friends and have evidently come to stay.

Burpee's Bush Lima.—The bushes grow 18 to 20 in. high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush, from 2 to 3 feet in diameter. The bush character is thoroughly established, not one plant in a thousand showing any disposition "to run." It is an immense yielder, each bush bearing from 50 to 200 of the handsome large pods, well filled with very large beans, which are identical in size and luscious flavor to the well-known large pole limas. By the introduction of this most valuable novelty the largest and best lima beans can now be raised in quantity at small cost, without the expense and labor attached to the use of poles. **Pt. 15c. Qt. 30c. Pk. $1.75. Bu. $6.75.**

DREER'S BUSH LIMA.—A dwarf variety of the Dreer's Improved Lima, which has been fixed in its character of a bush bean; it is very prolific, single plants often producing from 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. **Pt. 15c. Qt. 30c. Pk. $2.00.**

HENDERSON'S DWARF LIMA.—These are valuable because they do not need poles, and being so dwarf can be planted close together. They are very early and prolific, continuing to bear until frost. **Qt. 25c. Pk. $1.50.**

BROAD WINDSOR.—Matures in 50 days after germination. Should be planted very early. **Qt. 30c.**

Pole Lima Beans.

KING OF THE GARDEN LIMA.—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary lima, bearing pods five to seven inches long in clusters of four and five, with five to six beans in a pod. **Pt. 15c. Qt. 30c. Pk. $1.75. Bu. $6.50.**

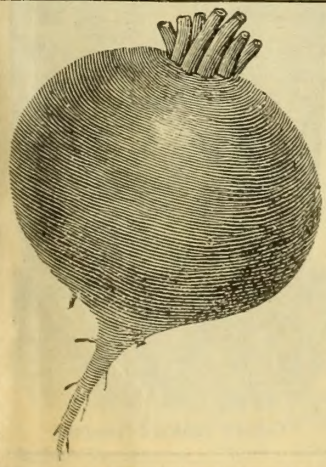
EXTRA EARLY JERSEY LIMA.—This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow. **Qt. 30c. Pk. $1.75. Bu. $6.50.**

DREER'S IMPROVED, or CHALLENGE POLE LIMA.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the large lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time aftermaturing. **Qt. 30c. Pk. $2.00.**

EXTRA LARGE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean, surpasses all in quality, and is the favorite with most people. The beans are very large, tender, and of delicious flavor. **Qt. 30c. Pk. $1.75. Bu. $6.50.**

LARGE WHITE LIMA.—One of the best of the pole beans, either green or dry. **Qt. 25c. Pk. $1.50. Bu. $5.75.**

BEETS.



Crosby's Improved Egyptian Beet.

A very superior strain of the well-known Egyptian, carefully selected, deep blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not quite so flat as the ordinary Egyptian, nor so round as the Eclipse. Once used, it is preferred to Egyptian or Eclipse for forcing in frames or for first sowing outside, and being a rapid grower, it may be sown outside as late as July. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.**

LARGE LONG BLOOD.—A large and desirable late variety of deep red color. **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.**

EDMOND'S RED TURNIP.—The most uniform of all turnip beets. It is of handsome round shape, good marketable size, and deep blood color. It has a small top, and may be planted close. **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.**

SWISS CHARD.—**Oz. 10c. Lb. 25c.**

BASSANO, or EXTRA EARLY TURNIP.—Flesh white and rose, very sweet and tender. **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.**

EXTRA EARLY EGYPTIAN.—This is a flat beet, very early and deep red color. Owing to the small top it can be planted very close. **Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.**

Port Deposit, Md., February 21, 1900.

I used your Garden Seeds last season and they gave me the best results. You will have my order again this year.

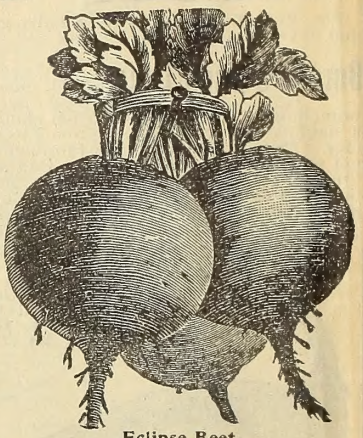
W. J. DEVONSHIRE,
Farm Manager for Jno. H. Heald & Co.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BEETS—Continued.

(One ounce of seed will sow one hundred feet of drill.)

SELECT a deep, rich, sandy loam, and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, fourteen to sixteen inches apart, and cover one inch deep. When the young plants appear, thin to four or five inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round, early kinds.



Eclipse Beet.

G. & T. Co.'s Early Blood Turnip Beet.

THIS is our **Special Stock** of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape and early.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

Detroit Dark Red Turnip Beet.

It will be found on investigation that this is one of the finest formed and handsomest colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early and produces more marketable specimens on the same acreage than any other varity. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.**

Baltimore Early Market Beet.

This Beet is growing rapidly into favor. Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is specially desirable for hot beds on account of its small top and close-growing habit.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

ECLIPSE BEET.

THIS extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is, to a large extent, superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table. We have never known a market gardener to try it but who wanted it again.

Pkt. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.

BRUSSELS SPROUTS.

(One ounce of seed to 100 yards of row.

German, Gruener Kopfkohl.—A class of plants allied to the Cabbage family, producing a great number of small heads for sprouts on the main stem of the plant, which are used and prepared as greens. It is a delicious vegetable, especially after being exposed to the frost. Plant in rich soil, in hills two feet apart each way. **Pkt. 10c. Oz. 20c. 1-4 lb. 60c.**

BROCCOLI.

(One ounce of seed to 100 yards of row.)

German, Spargel Kohl.—The Broccoli are closely allied to the Cauliflower family, They require similar cultivation and treatment to Cauliflower.

EARLY PURPLE CAPE.—Large, compact. **Pkt. 10c. Oz. 40c.**

LARGE EARLY WHITE.—Head white, like Cauliflower; the best. **Pkt. 10c. Oz, 40c.**

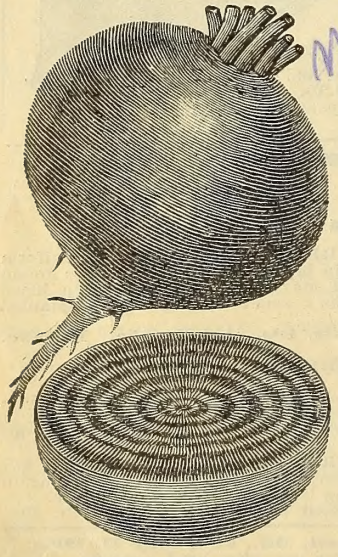
BORECOLE.

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit, and beautifully curled. Seed very scarce. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 30c. Lb. $1.00.**

Golden Tankard Mangold.

BEETS for Stock Feeding.

Sow Four Pounds to the Acre.



Baltimore Early.

Stock Beets grow larger than other Beets, and hence require more room. They should be sown from April to June, in drills two and a-half feet apart, and the plants thinned to twelve to fifteen inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

Golden Tankard Mangold.—The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer. It has already taken the lead of other varieties in England, and is relished by milch cows and sheep. **1-4 lb. 15c. Lb. 30c. Five lbs. $1.00.**

Champion Yellow Intermediate, or Gate-Post Mangold.—One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. The crop is very uniform and the roots heavy, handsome and clean, with single tap root. In flavor they are wonderfully rich and nutritious. With good cultivation will crop at the rate of 200 bushels per acre. **1-4 lb. 15c. Lb. 40c. Four lbs. $1.00.**

Long Red Mangold Wurzel.—The well-known, large, long variety, grows well out of ground. Color light red. Very productive. **1-4 lb. 15c. Lb. 30c. Five lbs. $1.00.**

White Sugar Beet.—A large-growing sort, and used for feeding stock. **1-4 lb. 15c. Lb. 30c. Four lbs. $1.00.**

CABBAGE.

One Ounce of Seed to 100 yards of row. **GERMAN, KOPFKOHL.**

Early Cabbages.

CABBAGE will thrive on any good corn land, though the stronger the soil the better they will develop. New land is preferable. Plow deep and manure very liberally, as cabbage is a strong feeder and will repay for the care bestowed upon it. The early sorts bear planting from eighteen inches to two feet apart in the rows, with the rows from two to two and a half feet apart. The larger varieties to be from two to four feet apart in the rows, with the rows from two and a half to four feet apart, the distance varying with the size. It does not pay to buy cheap cabbage seed. Ours are American grown, and from the best stock in the country. For early use, sow in a hot-bed in February or March, and transplant to a cold-frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June, and transplant as soon as the plants are five or six inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

KING OF EARLIES.—An excellent early sort. Heads formed like a Wakefield, but ten days earlier. Habit vigorous, short stem, and proof against sun.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 65c. Lb. $2.25.

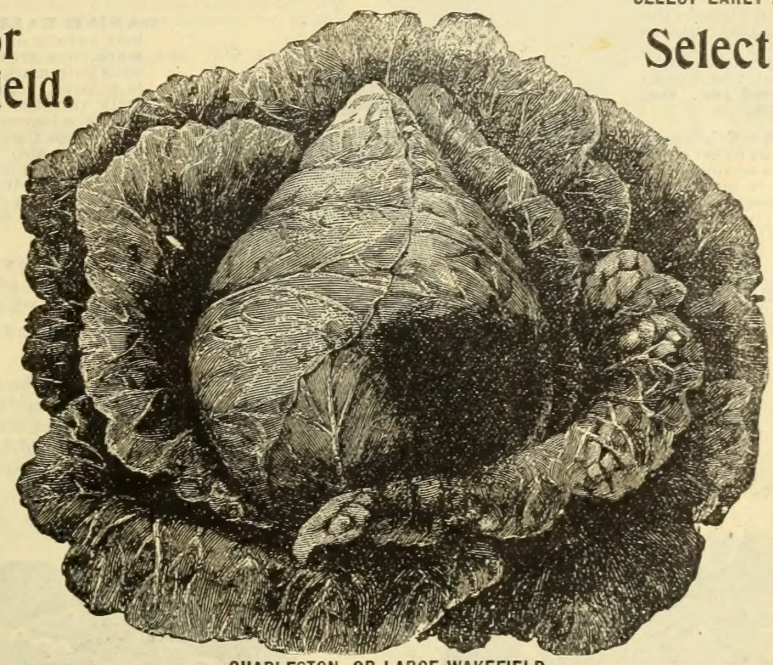
EARLY WINNINGSTADT.—Head large, cone-shaped and solid. An old and popular sort. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.**

SELECT EARLY JERSEY WAKEFIELD.

Charleston, or Large Wakefield.

This is now a very popular market cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger, and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows. One great advantage is, it does not burst open when ripe, like many other early sorts, and consequently can be left standing on the ground a long while without injury, until a favorable opportunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort.

Pkts. 5c. and 10c.
Oz. 25c. 1-4 lb. 65c.
Lb. $2.00.



CHARLESTON, OR LARGE WAKEFIELD.

Select Early Jersey Wakefield.

The very best early cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and, having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wakefield cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year. The demand for this sort has brought on the market inferior stock at a low price, but when select stock, such as we offer, is used, it cannot fail to give satisfaction.

Pkts. 5c. and 10c.
Oz. 20c. 1-4 lb. 60c.
Lb. $1.75.

LARGE EARLY YORK. One of the earliest. Forms a medium size, pointed head.
Pkts. 5c. and 10c.
Oz. 15c. 1-4 lb. 50c.
Lb. $1.25.

ALL HEAD.

Early Dwarf Flat Dutch

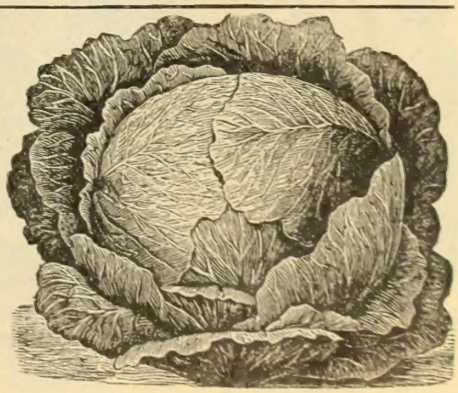
An old standard variety which stands the sun and produces fine large heads, coming in soon after the Wakefield. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.**

Early Spring.

An extra early round-headed cabbage of the early summer type. Pkt. **10c.** Oz. **40c.** ¼ lb. **$1.25.**

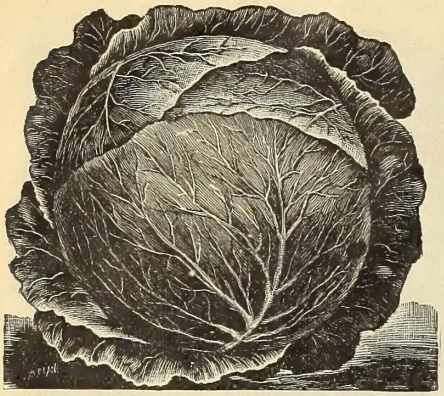
ALL-HEAD, Early Cabbage.

This is the largest of all Cabbages, fully one-third larger than the Early Summer, therefore more profitable to the market gardener. It is the nearest approach to a thoroughbred Cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other Flat Cabbages, it is consequently more tender. It is also valuable for a late or winter cabbage.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 65c. Lb. $2.00.



LARGE EARLY SUMMER.—One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about ten days later than the Wakefield. It is very popular with the truckers.
Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.

CABBAGE.—CONTINUED.



NEW EARLY CABBAGE.

NEW EARLY.—This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves grow close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.75.**

THE SUCCESSION CABBAGE is one of the most valuable contributions to horticulture. It would be classed as a second early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect Cabbage in every respect, not only being of the largest size, but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.75.**

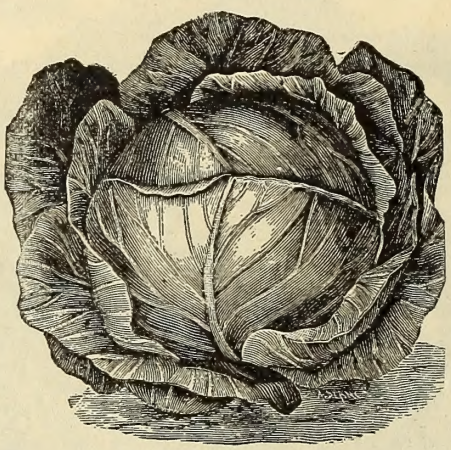
LOUISVILLE DRUMHEAD.—This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States. **Pkt. 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.**

SUREHEAD.—This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.50.**

ALL SEASONS.—This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.50.**

DANISH BALL HEAD CABBAGE.

DANISH BALL HEAD.—This most excellent variety of Cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in the Philadelphia, New York and Boston markets. **Pkt. 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.75.**

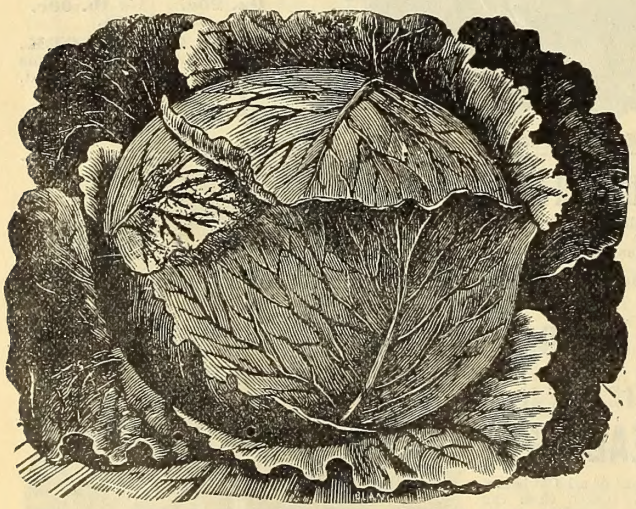


SUCCESSION CABBAGE.

THE LUPTON.—This will mature earlier than Flat Dutch, keeps well, and is a good header. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 65c. Lb. $2.00.**

I am more than pleased with cabbage seed I bought of you—$2.00 worth; sold $20.00 worth of plants, and set out about 10,000. I believe my sales would have been double had it not been for the drought.

U. E. Miller,
Sept. 17, 1900. Hudgins, Va.



BOSS FLAT DUTCH—LATE CABBAGE.

PREMIUM LARGE FLAT DUTCH—LATE CABBAGE.

LATE OR AUTUMN CABBAGE.

PREMIUM LARGE LATE FLAT DUTCH CABBAGE.—Large and excellent for winter, very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.**

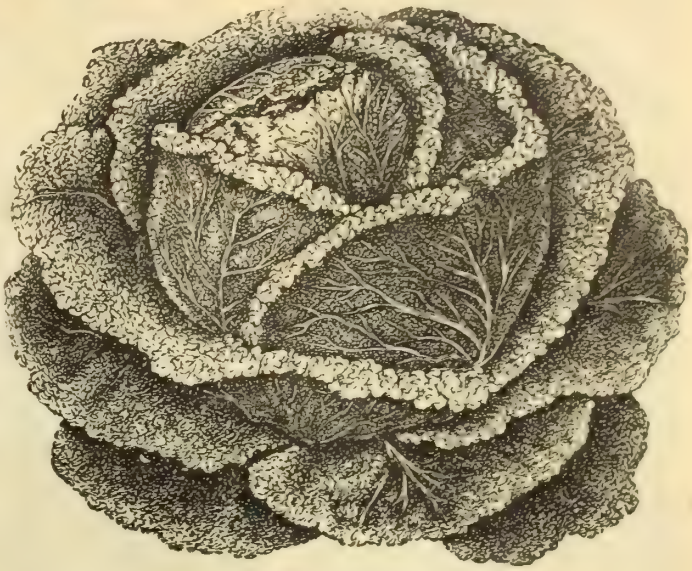
BOSS FLAT DUTCH CABBAGE.—In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we would say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it, their answer is "splendid" or "elegant," everything heads; "you can scarcely find any that don't head." The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Pound $1.75.**

LATE CABBAGES. Continued.

Perfection Drumhead Savoy.—

This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first-class. To say that our market gardeners are pleased with it, is putting it mild; they are enthusiastic over it, as they find it so much superior to the old-time Savoy. It is specially adapted to private use, as when grown in the fall and allowed to be touched by frost, it is one of the most delicious of all vegetables.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.



LARGE LATE AMERICAN DRUMHEAD.—One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.

RED DUTCH.—The head is large, round, solid and a deep red color, the best of the red cabbages.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

WORLD-BEATER, or AUTUMN KING.—This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower.

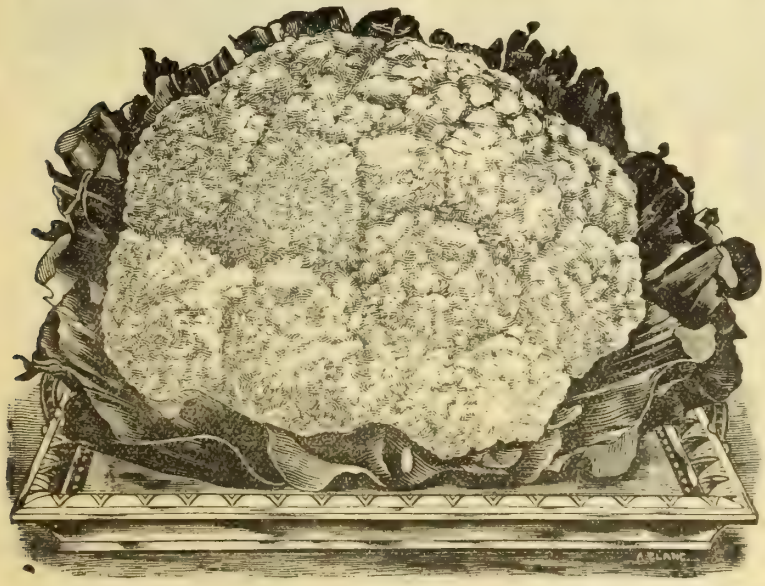
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.75.

Georgia Collards.—

Called the Cabbage Collard on account of its close bunching growth. The plant produces centre leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the first quality.

Pkt. 10c. 1-4 lb. 20c. Lb. 60c.

G. & T. Co.'s Snowball Cauliflower.



One Ounce of seed will produce 2,000 Plants.

MANY amateurs make the mistake of sowing the seed too early for late crop. It should not be sown before May, as when sown earlier they begin to head before the hot weather is over, and are a failure. Cauliflower can only be grown on rich, well-tilled and well-watered soil. The most delicious of all the cabbage family, and requiring the same culture and treatment, but being more delicate. The good culture and richness of the soil recommended for cabbage is absolutely necessary for the cauliflower. For early crop, sow in hot-bed or cold-frame in February or March. For late crop sow and treat like late cabbage.

Our Gilt Edge Snowball Cauliflower.—

Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect snow white head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur.

Pkts. 25c. and 50c. 1-4 oz. 75c. Oz. $2.00.

SELECT EARLY DWARF ERFURT.—Long the standard of highest excellence, and still holding its own with a great many people.

Pkts. 25c. and 50c. 1-4 oz. 50c. Oz. $1.75.

EARLY PARIS.—An excellent sort for early or late use.

Pkt. 10c. Oz. 50c.

Cress, or Pepper Grass.

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

CURLED.—Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.

WATER CRESS.—Water Cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

Pkt. 10c. Oz. 30c.

Corn Salad.

Three ounces of seed to 100 feet of row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter, when it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach.

Pkt. 5c. 1-4 lb. 15c. Lb. 40c.

G. & T. CO.'S CARROTS.

One Ounce of Seed to 100 Feet of Row.

CARROTS thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.

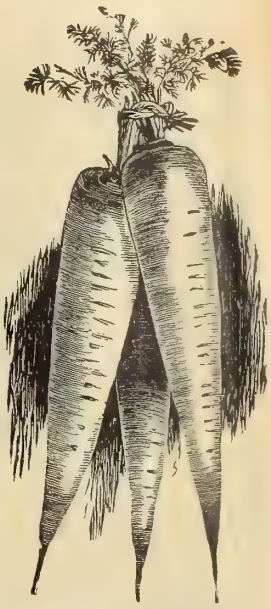
Chantenay.—Very productive; has an extra large shoulder, is easily dug, and is in every way desirable. It is very smooth, fine in texture, and of a beautiful, rich orange color. Well worthy of a thorough trial.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 75c.

EARLY SCARLET HORN.—Blunt rooted, early, good. Favorite sort for early crop. **Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 75c.**

Improved Long Orange.—Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color.

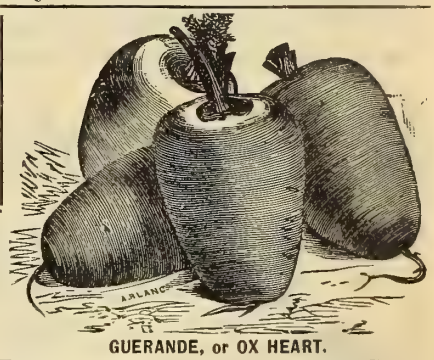
Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 65c. By mail 75c



IMPROVED LONG ORANGE.

Danvers.—A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habit, a wonderful producer. It is a first-class carrot for all soils.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 75c.



GUERANDE, or OX HEART.

Guerande, or Ox Heart.—A new French variety, intermediate in length, of fine quality; excellent table sort. The shape is nearly oval, and the color and quality all that can be desired. No market gardener should be without it.

Pkts. 5c. and 10c. 1-4 lb. 25c. Lb. 75c.

CELERY.

German, Celerie.

One Ounce Will Produce 2,000 Plants.

PARIS GOLDEN SELF-BLANCHING CELERY.

PARIS GOLDEN SELF BLANCHING CELERY.—**(French Stock.)**—This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery. No variety can surpass, if, indeed, equal the Paris Golden Self-Blanching in its striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years.

Pkts. 5c. and 10c. oz. 30c. 1-4 lb. 90c. Lb. $3.50.

PARIS GOLDEN CELERY (American Stock).—This is a selection from the French Stock grown here, and is a favorite sort with market gardeners, being very largely used.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 75c. Lb. $2.50.

NEW ROSE.—In England the Pink or Red Celeries are much more largely used than the white varieties, and we wonder they are not more grown in this country. They possess many advantages over the white, being hardier, more solid and better keepers.

Pkt. 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

WHITE SOLID.—A large, standard sort. One of the best of the large growing sorts.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.50.

IMPROVED BOSTON MARKET.—This is a decided improvement on the old Boston Market, being earlier, larger in size, and of more vigorous growth.

Pkt. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.50.

CELERY SEED FOR FLAVORING.—This seed is used for flavoring pickles, soups, etc.

Pkt. 5c. 1-4 lb. 10c. 1-2 lb. 15c. Lb. 25c.

G. & T. Co.: I have used seeds from a number of leading seed houses in the country, but I am free to say that I have been more than successful with those purchased from you.

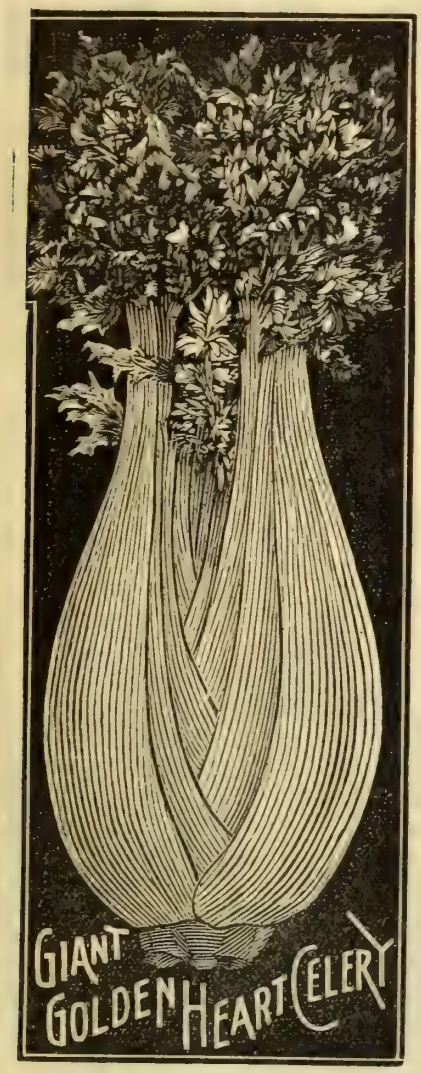
DAVID P. SMITH,
Centreville, Md.
July 2, 1900.

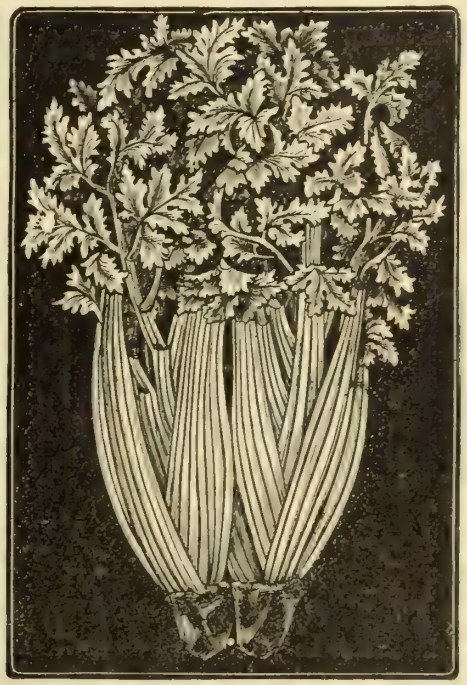
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CELERY
CONTINUED.

One ounce will produce 2,000 plants. GERMAN, **Celerie.**

PLANT seed in hot-bed or very early in open ground. Transplant four inches apart when three inches high, in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows three to four feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from six to eight inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the centre shoots.





WHITE PLUME.

GOLDEN DWARF CELERY. This old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.

PERLE LE GRAND. The new Perle le Grand has a beautiful, full golden heart, and rich, nutty flavor. On the market stall it is extremely showy and salable, a single plant making a good-sized bunch and surpassing all other sorts in weight. It is not only a good early Celery, being among the first fit to use, but as a winter keeper, remaining, when properly trenched, in perfect condition away into the spring. **Pkt. 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.**

PINK PLUME. This is identical with the White Plume, but with the added merit of the stalks being exquisitely suffused with pink, and possessing the crispness, rich, nutty flavor and long-keeping qualities for which red celeries are noted. **Pkt. 10c. Oz. 25c. 1-4 lb. 75c.**

WHITE PLUME. An early, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

PERLE LE GRAND.

A SELECTION from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine, nutty flavor, being entirely free from any bitter taste. It grows about two feet high. The stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.

CELERIAC,
or Turnip Rooted Celery.

LARGE SMOOTH PRAGUE. The largest, smoothest and best of the Celeriacs. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.**

NEW APPLE SHAPE. Small [illegible] round, [illegible]

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.

SWEET OR SUGAR CORN

FOR TABLE USE. — **German, Welschkorn.**

When Corn is wanted by mail, add 8 cents per pint to pay postage.

CULTURE.—Sugar Corn may be planted in rows three to four feet apart, and the seeds placed about eight inches apart in the rows, or planted in hills three to four feet apart each way, according to variety grown or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.

EXTRA EARLY ADAMS.—**Ear 5c. Doz. 25c. Pt. 10c. Qt. 15c. Pk. 50c. Bu. $1.75.**

EARLY ADAMS.—A favorite in the South.
Ear 5c. Doz. 25c. Pt. 10c. Qt. 15c. Pk. 50c. Bu. $1.75.

EARLY BURLINGTON HYBRID.—We introduced this variety in this market five years ago, and our sales have grown each year. Not a true sugar corn, but a hybrid or mixture between the sugar corn and the Adams Early, being as early as Adams, with an ear about the size of Stowell's Evergreen, and more productive than either. The husk, blade and ear, when green, resemble the sugar corn. Those who have tried it want it again.
Doz. 25c. Qt. 15c. Pk. 65c. Bu. $1.75.

CROSBY'S EXTRA EARLY.—An early market variety, very productive, ears rather short and rich, sugary flavor.
Qt. 20c. Pk. 75c. Bu. $2.25.

EARLY MINNESOTA SUGAR.—One of the first early among sugar corn. **Qt. 20c. Pk. 75c. Bu. $2.25.**

BLACK MEXICAN SUGAR.—The Black Corn is especially rich in sugary qualities. **Qt. 20c. Pk. 75c.**

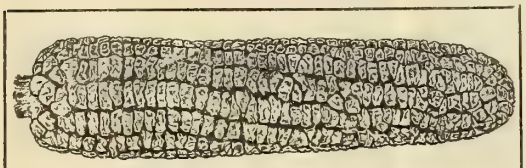
WHITE CORY.—An extra early variety, with good-sized ears and large kernels. **Qt. 20c. Pk. 75c. Bu. $2.25.**

EXTRA EARLY BALTIMORE.—The hardiest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears.
Ear 5c. Doz. 30c. Qt. 15c. Pk. 75c. Bu. $2.25.

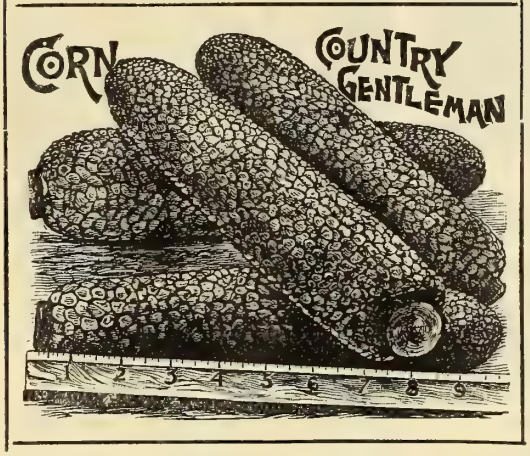
EARLY MAMMOTH.—A splendid market sort, producing large, handsome ears, grain large, white and sweet. Fills out well at the end. **Ear 5c. Doz. 30c. Qt. 15c. Pk. 75c. Bu. $2.25.**

LATE MAMMOTH.—The largest variety grown; very fine for market purposes.
Ear 5c. Doz. 50c. Qt. 15c. Pk. 75c. Bu. $2.50.

STOWELL'S EVERGREEN.—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large. One of the best.
Ear 5c. Doz. 30c. Qt. 15c. Pk. 75c. Bu. $2.00.



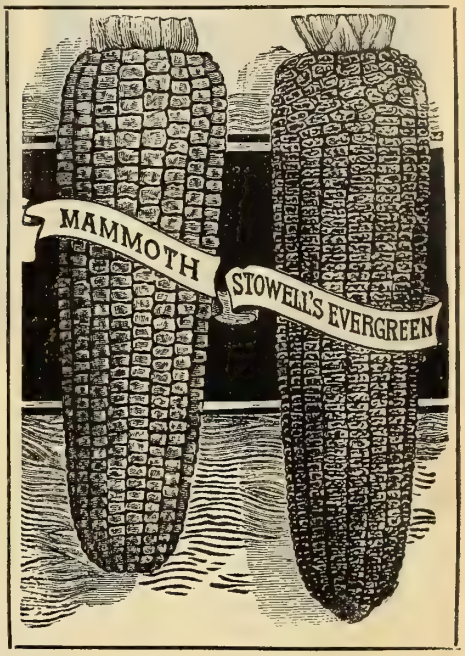
TRUCKERS' EARLY CORN.



TRUCKERS' EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation.
Qt. 20c. Pk. 90c. Bu. $3.00.

KENDALL'S EARLY GIANT.—The largest early sweet corn known; comes in just after the Cory, and is very productive.
Pt. 15c. Qt. 25c. Pk. $1.00. Bu. $3.00.

FIRST OF ALL.—A selection from the Cory, the ears about the same size as Cory, lighter in color and earlier.
Qt. 20c. Pk. 75c. Bu. $2.50.



COUNTRY GENTLEMAN CORN.—This is the sweetest and most deliciously flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts.
Qt. 20c. Pk. 75c. Bu. $2.25.

STABLER'S EARLY.—Of larger size than usual for the early kinds. It is remarkable for the fine flavor, sweetness and earliness, and is a desirable gardeners' and canning variety.
Pt. 10c. Qt. 20c. Pk. 75c. Bu. $2.00.

HICKOX.—A very handsome and excellent variety of sugar corn; large, white grain and sweet.
Ear 5c. Doz. 40c. Qt. 20c. Pk. 75c. Bu. $2.00.

EGYPTIAN, or WASHINGTON MARKET.—A large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market.
Ear 5c. Doz. 40c. Qt. 20c. Pk. 75c. Bu. $2.00.

IMPROVED NE PLUS ULTRA.—Early, good-sized ears and deep grain. Very productive, some stalks yielding four ears and an average crop running as high as three ears to the stalk.
Qt. 20c. Pk. 75c. Bu. $2.00.

ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corns, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn.
Pt. 10c. Qt. 20c. Pk. 75c. Bu. $2.25.

90-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is a good seller as green corn, and if not used as green corn, makes a good variety for feeding purposes. It may be planted for early crop and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop.
Qt. 10c. Pk. 50c. Bu. $1.50.

60-DAY (Red Cob).—Not so large as 90-day, but grows quicker.
Qt. 20c. Pk. 75c. Bu. $2.50.

SUGAR CORN.—For fodder. **Write for Prices.**

Omps, W. Va., April 6, 1900.

Griffith & Turner Co.:
Having used your Tomato Seeds last year, I am convinced they are *all* good, and knowing this fact, I wish to make another order today, and I trust you will be as prompt as you were with my order of 1899.
A. E. DAWSON.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore. Established 1860.

CUCUMBER, GERMAN, GURKE.

CULTURE.

(One ounce will plant 50 hills; two lbs. will plant one acre.)

For very early Cucumbers sow the first of April in a hot-bed, upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil, when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm, in hills four feet apart for the smaller varieties, and five feet for the larger sorts. For pickling sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot, plaster or air-slacked lime, to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.

IMPROVED LONG GREEN.

LONG GREEN.—Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 40c.

LONG GREEN TURKEY.—A very showy and excellent sort.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

EVER-BEARING CUCUMBERS.

This variety is unique, and will prove valuable both for the table and for pickling. It is of small size, very early, enormously productive, and extremely valuable [illegible]. The peculiar merit of this new Cucumber is that it continues to flower and produce fruit until killed by frost, whether the cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

WHITE WONDER CUCUMBER.

The White Wonder surpasses the White Pearl both in handsome appearance and fine quality, while its strong, vigorous, extremely healthy habit of growth enables the vines to produce a large crop of perfect fruit, even under adverse conditions. Its strong constitution is exceptional. The Cucumbers are thickly set throughout the length of the vine, and are remarkably uniform in color, shape and size.

Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. $1.00.

Baltimore White Spine Cucumber.

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

ARLINGTON WHITE SPINE.—A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

EARLY GREEN.—Early, short, prolific. Quality of fruit good.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

EXTRA EARLY WHITE SPINE. A strain of White Spine which has been improved through careful selection, with a view to use for forcing in hot-houses and frames; also elegant for field culture. Our stock produces handsome, dark-colored fruits, which retain their color longer than other sorts.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

COOL AND CRISP. This is the earliest and one of the most prolific pickling Cucumbers. The Cucumbers are straight, long, even and slim, and of a dark color; it is very tender and crisp.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

EARLY CLUSTER. A short, prickly variety, bearing in clusters near the root. A great bearer.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

GHERKIN, or Burr. Used for pickles only.

Pkt. 5c. Oz. 15c. 1-4 lb. 35c.

JAPANESE CLIMBING CUCUMBER. It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight from 12 to 16 inches in length, the Cucumbers are thick, tender, and of delicate flavor; flesh white, skin dark green, turning to brown and netted when ripe.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 65c.

ENGLISH FORCING CUCUMBERS Should be grown in hot-beds where the temperature does not fall below 65 degrees at night.

TELEGRAPH is the best. 25c. Packet.

JERSEY PICKLING.

This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety.

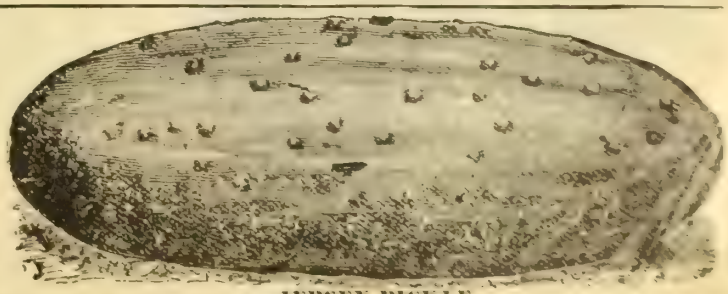
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

CHICAGO PICKLING.

Very Popular With Chicago Market Gardeners, and Extensively Grown in that Vicinity.

Fruit medium length, pointed at each end, with very large and prominent spines; color deep green.

Pkt. 5c. Oz 10c. 1-4 lb. 20c. Lb. 50c.



JERSEY PICKLE.

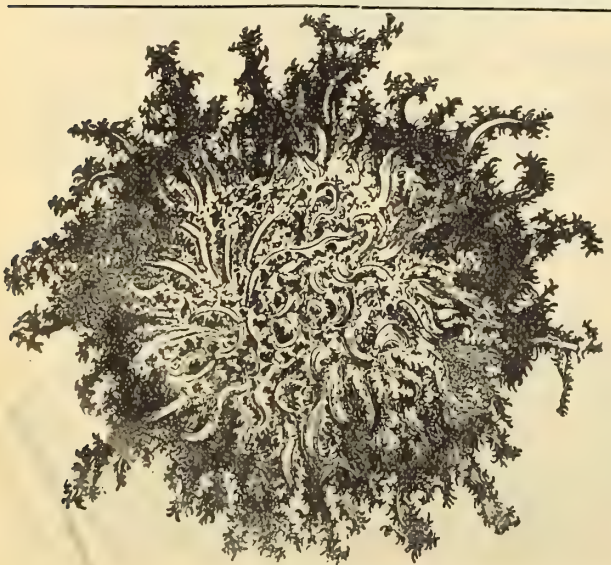
BALTIMORE EGG PLANT.

GERMAN, Eierpflanze.

CULTURE.—Sow the seed in hot beds early in March. When three inches high, pot the young plants, using small pots, and plunge them in the same bed, so that the plants may become stocky. They can be planted out, from the pots, when the season becomes sufficiently warm, in May or June; or they can be transplanted into a second bed to make them strong, until the weather is warm enough to transplant, about three feet apart each way, in thoroughly worked and well enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth, they seldom recover. Therefore repeated sowings are sometimes necessary. Care should be observed in cutting the fruit, so as not to disturb the roots of the plants.

(One ounce will produce about one thousand plants.)

BALTIMORE EGG PLANT.—When once used, takes the lead.



THIS is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color. We have never seen finer specimens of Egg Plant than those grown from our seed. When inspecting the field of Egg Plants growing for seed we were surprised at the regular size and uniform, handsome color of the fruit all over the field.

Packet, 10c. Oz. 30c. 1-4 lb. 65c. Lb. $2.00.

Endive.

GERMAN, Endivien.

IS ONE OF THE BEST SALADS FOR FALL AND WINTER USE.

(One ounce of seed to one hundred and fifty feet of row.)

FOR early use, sow as soon as the ground can be worked in the spring, in drills fifteen inches apart, and thin plants to six or eight inches in the row. To blanch the leaves, gather them carefully together when perfectly dry, and tie with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

GREEN CURLED.—The best sort in use. Useful as a salad, and also used for garnishing. **Pkt. 5c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25.**

FRUITLAND, PUTNAM CO., FLA., NOV. 20, 1900.

GRIFFITH & TURNER CO.—I had some Prizetaker Onion Seed from you a few days ago, and was more than pleased to see how well they came up. Did not think that seed so cheap as you sell would give so good a plant, but I was mistaken.

Your Turnip Seed is also all that I could wish for. SAM'L C. GROSS.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

KALE. GERMAN, BLAETTER-KOHL.

ONE OUNCE OF SEED WILL SOW A DRILL OF ABOUT TWO HUNDRED FEET.

THE Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September, and protect during winter. It must also be sown in April or May for later use

EXTRA CURLED NEW AMERICAN KALE.

This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety.

Pkt. 5c. 1-4 lb. 15c. Lb. 50c.

DWARF GERMAN GREENS.—This variety sow in September broadcast, and gather in early spring like spinach. It may also be sown early in the spring for later use.

Pkt. 5c. 1-4 lb. 15c. Lb. 50c.

NORFOLK.—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.

KOHLRABI

ONE OUNCE OF SEED TO ONE HUNDRED YARDS OF ROW.

WHITE VIENNA.—BULB LIGHT GREEN, FLESH WHITE, VERY RAPID IN GROWTH, EARLY MATURITY, FINE IN TEXTURE, and SYMMETRICAL IN FORM. SUPERIOR.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

LEEK.

GERMAN, LAUCH.

ONE OUNCE OF SEED TO 150 FEET OF ROW.

SELECT good Onion soil, manure liberally, plant in April in drills six to eight inches deep, and eighteen inches apart, and thin to nine inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE.—A large and strong plant; hardy. The best variety for general culture.

Pkt. 5c. Oz. 10c. 1-4 lb. 40c. Lb. $1.25.

MUSSELBAUGH.—Oz. 20c. 1-4 lb. $1.25.

LARGE ROUEN.—Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

LETTUCE. GERMAN, LATTICH.

One Ounce of Seed to One Hundred and Fifty Feet of Row.

G. & T. CO.'S WHITE SUMMER LETTUCE.

LETTUCE requires a rich and rather moist soil. The rows should be about twelve inches apart, and the plants thinned to ten or twelve inches apart for the leading varieties. The more rapid the growth the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

EARLY WHITE CABBAGE, or BUTTER.—A broad leaved, vigorous heading sort; white, showy and desirable.

Pkt. 5c. Oz. 15c. 1-4 lb. 35c. Lb. $1.00.

EARLY CURLED SIMPSON.—Black seed. Very early; excellent for salads; forms a compact mass of leaves.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 35c. Lb. $1.00.

TENNIS BALL.—Black seed. A favorite forcing variety; a very hard head.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 35c. Lb. $1.00.

G. & T. CO.'S SUMMER LETTUCE (Black Seed).—This Lettuce is becoming very popular among gardeners for summer use. It produces a splendid, large, solid head, of the cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow.

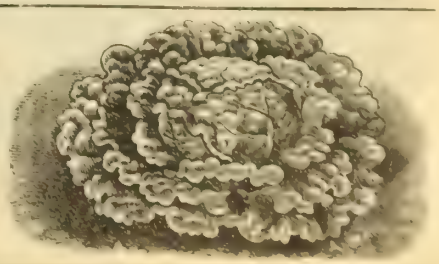
Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 35c. Lb. $1.00.

G. & T. CO.'S WHITE SEED SUMMER LETTUCE.

The best Summer Lettuce ever introduced.

Having heard of this superior Lettuce, we secured some of the seed, and introduced it last season. The result exceeded our expectation. Those who purchased it were delighted with their crops and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light; leaves nicely crinkled; very tender and of most excellent flavor.

Pkt. 5c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.



ALL KINDS OF MACHINERY REPAIRED.

LETTUCE.

(CONTINUED.)

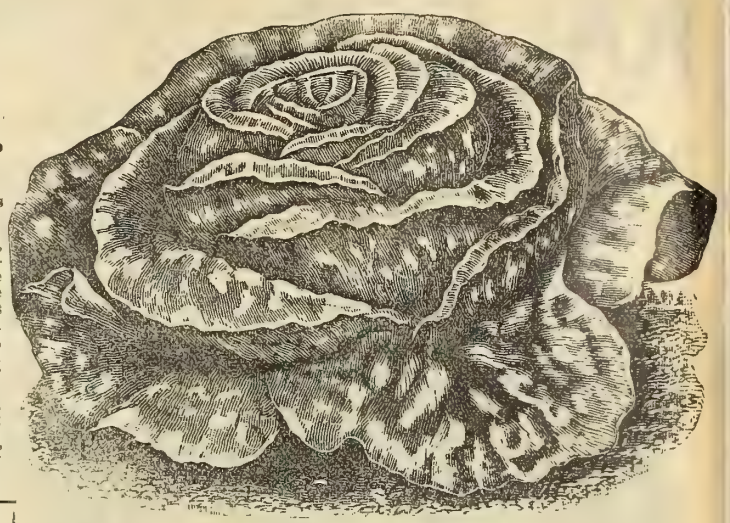
Baltimore Cabbage Lettuce.

G. & T. CO.'S TRUE STOCK.

Large Heads, Beautiful Heads, Solid Heads, Stands Heat Well. Best of all for FALL PLANTING.

THIS new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among Lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these, in turn, were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says: "I had 3000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color, pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine."

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25



BALTIMORE CABBAGE LETTUCE.

BALTIMORE OAK LEAF.—This Lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.
Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 30c. Lb. $1.00

GRAND RAPIDS.—This variety is largely grown for shipment, and is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish-green color, much crimpled and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; very little liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting. **Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. $1.00**

BIG HEAD LETTUCE.—The "Big Head" is certain to please market gardeners and truckers, because it always produces large salable heads. It is very solid and crisp, of tender quality, which makes it attractive. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25**

PARIS WHITE COS.—Differs entirely in shape from the other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green. It is very hardy and of good flavor. To blanch perfectly it must be tied up. **Pkt. 5c. Oz. 15c. 1-4 lb. 35c. Lb. $1.00**

PARIS WHITE COS.

BIG BOSTON.—The same in color, shape and general appearance as the Boston Market, but double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. $1.25**

BOSTON MARKET.—White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 30c. Lb. $1.00**

NEW YORK LETTUCE.—Very large, solid Cabbage heads; slow to run to seed; crisp, tender and of nice flavor. **Pkt. 5c. Oz. 15c. 1-4 lb. 30c. Lb. $1.00**

CREAM BUTTER LETTUCE (Black Seed).—This is fairly well known, and has given good results with the growers. **Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. $1.00**

HANSON.—A variation of the India, forming a half-closed head. **Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 30c. Lb. 90c.**

SALAMANDER (Black Seed).—An excellent sort for spring or summer use; forms good-sized heads of excellent quality.
Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. $1.00

DEFIANCE.—Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm they have to be cut open to allow the flower heads to come through.

Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. $1.00

LARGE LOAF LETTUCE.

Large Loaf Lettuce.

This is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor Lettuce for fall or early spring.

Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. $1.00

Ilchester, Md., August 6, 1900.

I had your Baltimore Cabbage Lettuce last year, and I have never seen such large, solid heads before.

O. B. MAGRUDER.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Musk Melon.

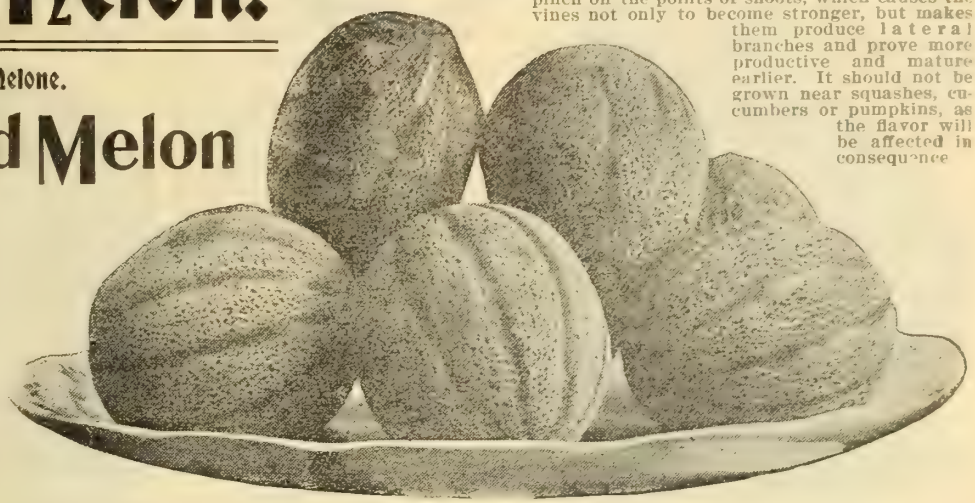
CULTURE.—One ounce of seed to 50 hills. Sow about the last of spring or first of summer, in hills of light, rich, sandy soil, four feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence

German, Melone.

Rocky Ford Melon

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the Rocky Ford region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high flavored. We offer an exceptionally fine stock of this sort, the fruit being wonderfully uniform in shape and quality.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c. 5 lbs. $2.00



ROCKY FORD.

Baltimore Nutmeg Cantaloupe.

—The cut below is from a photograph taken from a sample lot of BALTIMORE NUTMEG CANTALOUPES gathered from the field where our seed was grown, and is a fair representation of the whole crop. The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. In passing through the fields inspecting the crops we were surprised at the uniformity in the shape and size of the fruit. The writer also tested the fruit, and found it to be of excellent flavor. It is green fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places; in fact, it is a leading sort all over the country.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c. 5 lbs. $1.50

BALTIMORE NUTMEG.

THE STOCK SEED OF THIS SPLENDID MELON WAS SECURED FROM A TRUCKER WHO ENJOYS THE REPUTATION FOR RAISING THE FINEST CANTALOUPES THAT COME TO THE BALTIMORE MARKET

EMERALD GEM.—Meat salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it and you will want it again.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c. 5 lbs. $1.75

OSAGE — MILLER'S CREAM.—Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

EARLY NETTED GEM.—Extensively grown, and many prefer it to all others for table use. Shape almost a perfect globe, and grows remarkably uniform; thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates.

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c. 5 lbs. $1.50

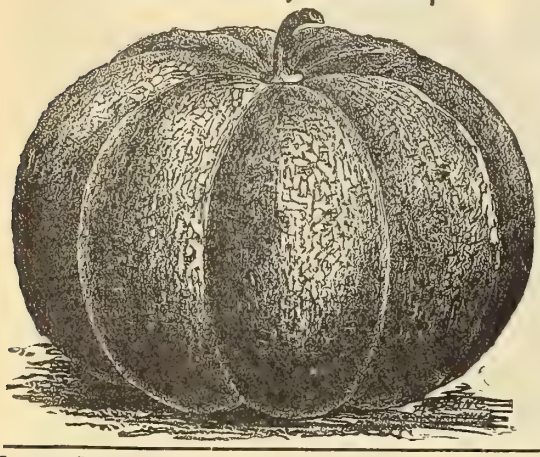
IMPROVED JENNY LIND.—A small, early variety of surpassing good quality highly recommended for family garden. We consider this the most delicious cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty disposing of all he could raise.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 30

MUSK MELONS

(CONTINUED.)

Southern Beauty Cantaloupe.

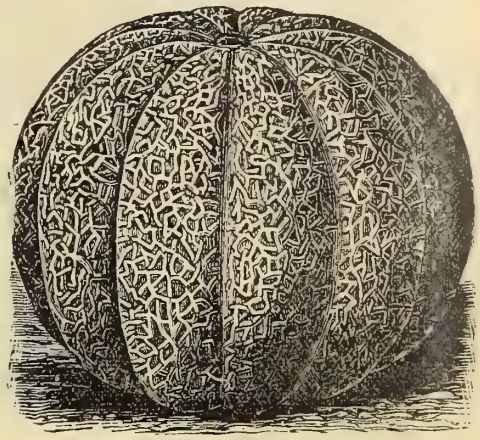


The Musk Melon for the South.

The Grower says: "It is the finest Cantaloupe I have ever planted, particularly suited to the Southern climate. It is remarkably free from rot of all sorts caused by damp or rainy weather, and will hold up a long time after they have ripened, the outer rind remaining firm and sound for at least ten days after the melon first ripens." Again he says: "I shipped these cantaloupes from this point to Chicago, Ill., Cleveland and Cincinnati, Ohio, by freight, where they arrived in perfect condition, and brought fancy prices."

Pkt. 5c. Oz. 10c.
1-4 lb. 20c. Lb. 60c.
5 lbs. $2.50.

Extra Early Hackensack.



Netted, green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack.

Pkts. 5c. and 10c.
1-4 lb. 15c. Lb. 40c.
5 lbs. $1.50

Anne Arundel Cantaloupe.

(Original Stock.)

The cut represents a sample of our stock photographed from fruit taken from the growing seed crop. It is very large, nearly round, deeply netted, and of good flavor. A wagon-load of them at once attracts the buyers' attention, and when piled up on a market stall they are irresistible. No large grower's stock is complete without this superb melon.

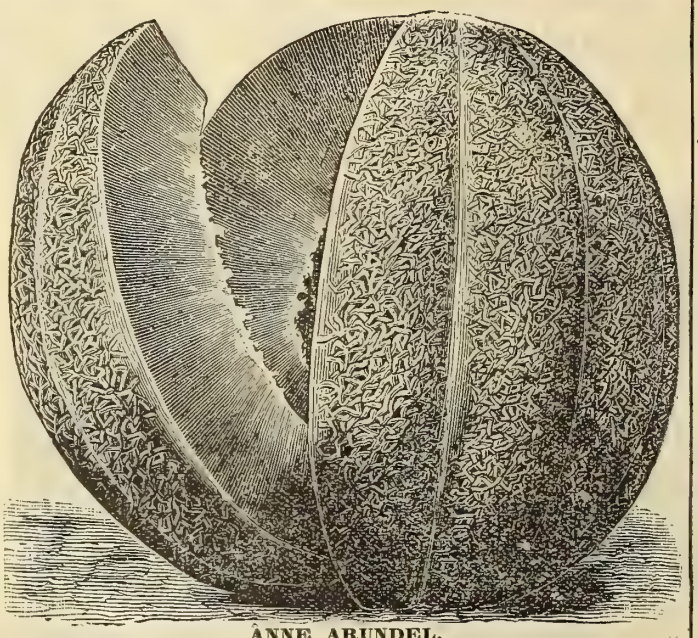
This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel County, Maryland. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction.

One grower says: "It is in all respects one of the best of melons." Another says:

"Portsmouth, Va.

"Dear Sirs—The Anne Arundel Cantaloupe was perfectly satisfactory—just what it is claimed to be. It proved to be early, of good size, and gave me a large yield."

Pkts. 5c. and 10c.
1-4 lb. 15c. Lb. 40c.



ANNE ARUNDEL.

Paul Rose

This variety originated with one of the most successful melon growers in the country, who reports that when planted for market the fruit has brought him nearly twice as much per acre as he realized from any other sort. In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We have found the fruit the most uniformly good of any musk melon we have ever grown, every one of the hundreds tested being sweet and rich flavored. It is rare that a musk melon of such superlative quality is a good market or shipping sort, but the firm, solid flesh and thin but strong rind of this sort makes it the best shipper we know of, while it is just the size for hotel and table use. We think it really has no equal as a market melon for professional melon growers, and it is one of the very best sorts for the home garden.

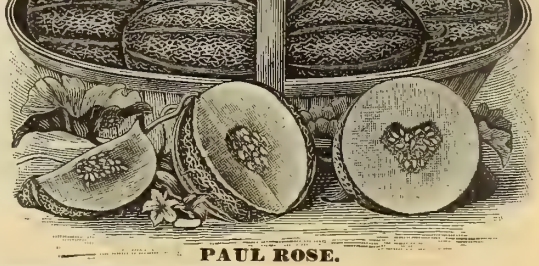
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 45c. 5 lbs. $2.00

PERFECTED—DELMONICO.—This is one of the best of the red-flesh sort; the flesh is a deep, rich orange color, of very fine grain, and of delicate and delightful flavor. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.**

BANQUET.

This superb melon represents years of careful selection and improvement. The raiser regards it as his greatest production and likely to supersede all other red-fleshed melons. "The Banquet" is a medium-sized melon, flat at both ends, and more beautifully netted than any known variety. In quality it has no equal; the flesh is uniformly deep and of that granulated character that always indicates a good melon; the color is a dark, rich salmon.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 75c.

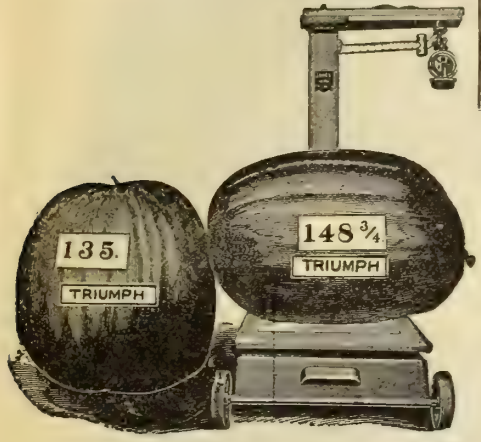


PAUL ROSE.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

WATERMELONS.

GERMAN—Wasser-Melone.



CULTURE.—One ounce of seed to thirty hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for Cantaloupes, except that the hills should be eight to ten feet apart.

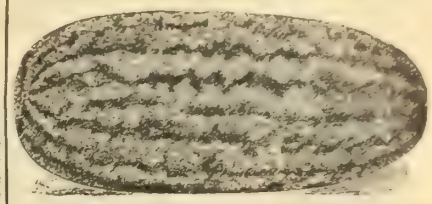
Triumph Watermelon.

This new melon, as a market sort and for shipment, is the best we have ever introduced. It is very prolific, very early, and of uniformly large size. It is a cross between the Duke Jones and Kolb Gem; has the fine, handsome appearance of the former and the fine shipping qualities of the latter. The rind, like the Duke Jones, is of dark green color, the seed exactly the same color as that of the Kolb Gem. The average size of the melon is very large.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c.

Lb. 40c. 5 lbs. $1.75

Florida Favorite.



This we consider the richest and sweetest flavored melon grown, of medium size and prolific. The best of all for family garden. It is now very popular with the truckers and melon growers of Maryland and Virginia, and sells readily in the Baltimore market.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c.
Lb. 35c. 5 lbs. $1.50

McIver's Sugar Watermelon.

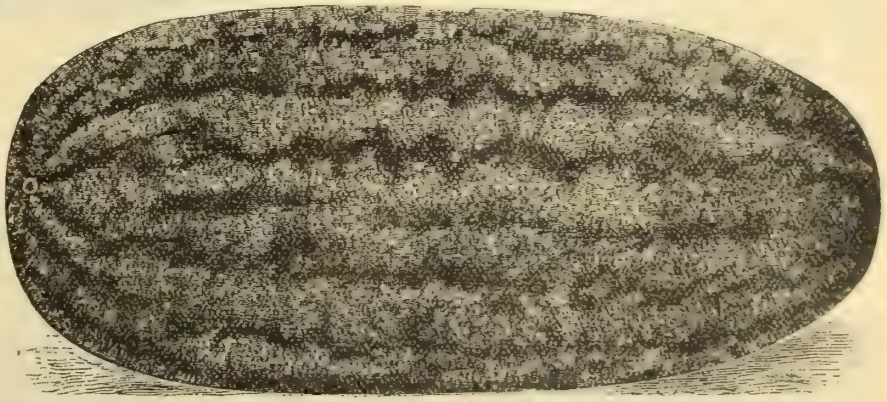
In outward appearance it somewhat resembles the old Rattlesnake. The quality however, is so much superior that it is an injustice to mention the Rattlesnake on the same page with it, as it even surpasses such excellent varieties as Florida Favorite and Icing. It is also an extremely productive and hardy variety.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

Lord Baltimore WATERMELON.

We wish to call special attention to this splendid and delicious melon. It is early, very large, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet, and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grows. It is a good shipper, and beats all others as a seller.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.
Lb. 50c. 5 lbs. $2.00



DUKE JONES.

DUKE JONES WATERMELON.

In shape the "Duke Jones" resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct, irregular stripes of dark and light green alternating; in general appearance it is a dark green melon. It averages very large in size, comparatively no small melons; is very productive; it is also very early in maturing, ripe melons being plucked from the vine just 67 days from the date of planting. Its chief claim for popularity is its delicious flavor. The flesh is crisp and very sweet, firm, but not too tough, no hard middles, but ripens evenly throughout; flesh deep crimson in color. The "Duke Jones" is the largest of melons, but has no superior in its delicious flavor.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 35c. 5 lbs. $1.50

GRAY MONARCH, or LONG WHITE ICING.—This distinct melon is without doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. It is also a fine shipper, carrying well long distances, and bringing very high prices.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 40c.

FORDHOOK EARLY.—This is a very early variety, growing to a good size; color, medium green; form, nearly round; seeds, white; flesh, bright red and very sweet.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

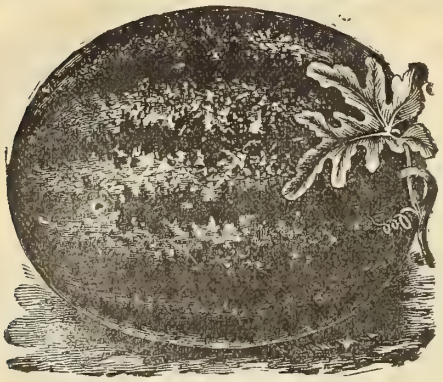
RATTLESNAKE WATERMELON. Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South. **Pkt. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.**

CITRON

FOR PRESERVES. [illegible] and small; used in making preserves.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c

WATER-MELONS—Continued.



KOLB'S GEM.

THIS is one of the largest, most productive, best-keeping and best shipping water-melons grown. Sells readily at the highest market price. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 30c. Five lbs. $1.25. 10 lbs. $2.00.

DIXIE. It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest melons on the market. Flesh deep red, sugary and melting.

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.

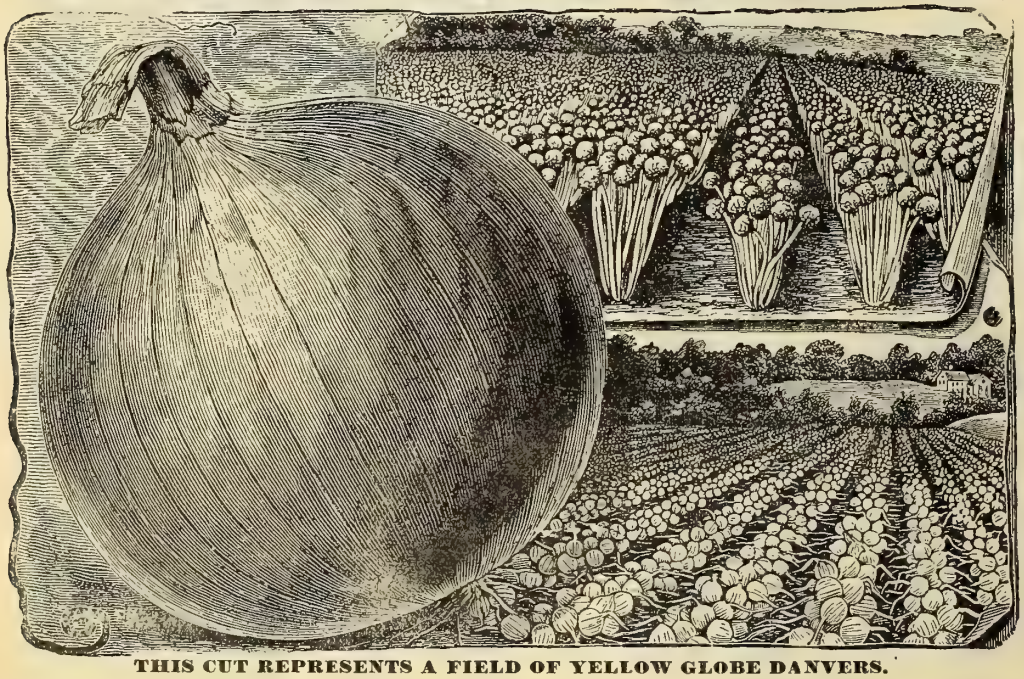
SWEET HEART. An entirely distinct and handsome new water-melon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly mottled light and dark green. Flesh bright red, solid and very sweet.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

BLUE GEM. This splendid melon resembles the Kolb Gem in shape, and is of a dark blueish color, with small grayish stripes. It is one of the best shippers, and as a table melon much superior to the Kolb Gem. Very productive, and is handsome and showy. A grower in Dixie, Georgia, says: "If you want a shipper that will go around the world, you can safely select the **Blue Gem.**"

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 35c. Five lbs. $1.50.

ONION SEED.



THIS CUT REPRESENTS A FIELD OF YELLOW GLOBE DANVERS.

An Order for Seed in packets, and Beans, Peas and Corn in pints and qts., amounting to $5.00, will be sent for $4.00, purchaser paying freight.

LARGE YELLOW DUTCH, or STRASBURG. Very fine; a good keeper. The kind used very largely by those who grow onion sets for market. **Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 85c. Five lbs. $4.00.**

YELLOW FLAT DANVERS.—Oz. 10c. 1-4 lb. 25c. Lb. 85c.

Yellow Globe Danvers.

A very handsome round, yellow onion, a large yielder and splendid keeper: the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions. **Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. 90c. 5 lbs. $4.00.**

Bermuda Varieties.

THEY are of a mild and delicate flavor and keep longer than any foreign variety. Like the Italian varieties, it produces full-grown onions from seed the same season. In the South sced sown in the fall will produce fine, large onions for market in early spring.

RED BERMUDA. Pkt. 10c. Oz. 20c. 1-4 lb. 65c. Lb. $2.00.

WHITE BERMUDA. Pkt. 10c. Oz. 20c. 1-4 lb. 65c. Lb. $2.00.

ONION SEED.

(CONTINUED.)

CULTIVATION.

TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.

THE NEW ONION CULTURE.—Sow the seed in hot-bed, and transplant early as possible to open ground. They can be grown very successfully by this plan.

FOR SETS.—Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. The most successful growers work their ground several times in the fall to kill out the weeds and get ground in nice condition. Use well-rotted manure freely, and be sure to get the seeds in as early as possible in the spring, no matter if it is ever so cold or unpleasant, and keep the soil mellow and clear of weeds, and if seed is good you will have a large crop of onion sets. On no other condition can you hope for success. Disturb the roots of the Onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

Sow the seed in drills about 12 inches apart. It will require from 40 to 60 pounds to sow an acre.

A FIELD OF WHITE SILVERSKIN ONION SEED.

White Pearl Onion.—Earliest of all, growing with all the rapidity of a summer radish. Pearly white, waxy and transparent. Form flat and broad, flavor very mild, and it can be eaten raw almost like an apple. On rich soil it will grow very large. This is an elegant sort to sow for large Onions, because of its rapid growth and fine quality.

Pkt. 5c. Oz. 15c. 1-4 lb. 50c. Lb. $1.50

White Silverskin or Portugal.—A good variety for family use; skin and flesh pure white, mild flavor and flat shape. The best white Onion to grow largely for sets.

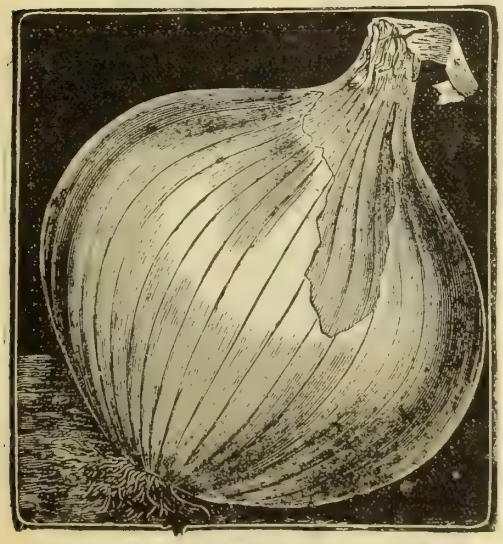
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 75c. Lb. $2.25

WETHERSFIELD LARGE RED.—A well-known and favorite sort. A large yielder and good keeper.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 90c.

PRIZETAKER

(American Grown.)



This is the large, beautiful Onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prizetaker a favorite variety for salads. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkably fine success.

Pkt. 5c. Oz. 15c. 1-4 lb. 35c.
Lb. $1.15. 5 lbs. $5.00

Onion Sets

WHITE.—Qt. 25c. By mail, 40c.
YELLOW.—Qt. 20c. By mail, 30c.

Write us for quotations by the bushel.

LOOK AT THIS!

An order of Seed in packets and Peas, Beans and Corn amounting to **$3.00** will be sent for **$2.50 cash,** purchaser paying express.

OKRA, or GUMBO

Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

DWARF PROLIFIC.—This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.

WHITE VELVET.—It is very distinct, and the pods are perfectly round, smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

Fruitland, Putnam Co., Fla., Nov. 20, 1900.
Griffith & Turner Co.:

I had some Prizetaker Onion Seeds from you a few days ago, and was pleased to see how well they came up. Did not think that seed so cheap as you sell would give so good a plant; but I was mistaken. Your Turnip Seed is also all that I could wish for.

SAML. C. GROSS.

English Mill Track Mushroom Spawn.

Lb. 12c. By Mail 20c. lb. 10 lbs. $1.00. 100 lbs. $8.00.

CULTIVATION.

THE cultivation of the Mushroom is a very simple matter, and requires only ordinary intelligence and care. The materials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not combine the necessary qualities. Long, strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds three feet wide at the base, two and a-half feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and cover with long litter. The bed should within a few days warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is rising, but always on the decline and under 90 degrees. Have a ground thermometer, and keep it plunged in the bed; by pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees no alarm should be felt, for if the manure was fresh it will likely produce a good crop. Where the heat has decreased to 90 degrees the bed is ready to receive the spawn, which is done by raising the manure with the hand and inserting pieces of spawn two inches square and nine inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about two inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days will do. If the soil is poor add a liberal quantity of bone meal. It requires a period of five to seven weeks before they are ready for use.

Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successfully grown on a shelf in an ordinary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stagings will suit them exactly, using materials in same manner as described.

MUSHROOM ON PASTURE LAND OR LAWN.—About the first of June take pieces of spawn an inch square, and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn one to two feet apart. In a favorable season a crop may be expected in three or four months from the time of planting.

MUSTARD.

GIANT CURLED.

Highly esteemed in the South, where the seed is sown in the fall, and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of greater breadth, forming enormous bunches.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

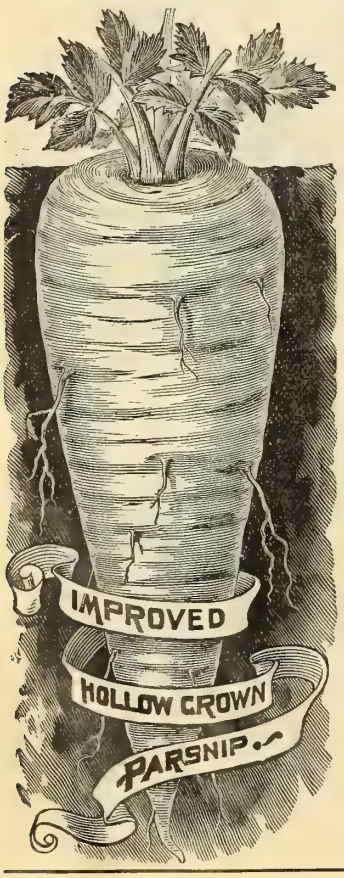
WHITE MUSTARD.

1-4 lb. 10c. Lb. 25c.

NASTURTIUM.

Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be pentrated by the nail, for pickles.

TALL—Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 75c. DWARF—Pkt. 5c. Oz. 15c. 1-4 lb. 30c. Lb. $1.00



PARSNIP.

The Parsnip will flourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to 5 or 6 inches apart.

Hollow Crown or Sugar.

The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.

PARSLEY

Select rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in vegetating, it will be necessary to sow early. Thin plants to four inches apart when two inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.

DWARF EXTRA CURLED.—The most beautiful and valuable variety in use. Of a handsome bright green color, finely crimped and beautifully curled. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.**

MOSS CURLED.—A very select crimped variety. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.**

PEPPER.

or CAPSICUM is cultivated mainly for Pickles. It is used as a seasoning in many ways, and sometimes medicinally. Sow the seed early in a hot-bed, if possible; if not, select a warm place in the garden for the seed bed, and sow as soon as the soil is warm. Transplant when three or four inches high, in rows eighteen inches apart.

CAYENNE.—Small, long and tapering, very hot; best for seasoning Pickles. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 65c.**

LARGE SWEET.—Very large and excellent for Mangoes or Stuffed Pickles. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c.**

BULL NOSE, or BELL.—Good for Pickling; very hot. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c.**

RUBY KING.—An excellent sort of large size and mild flavor. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 60c.**

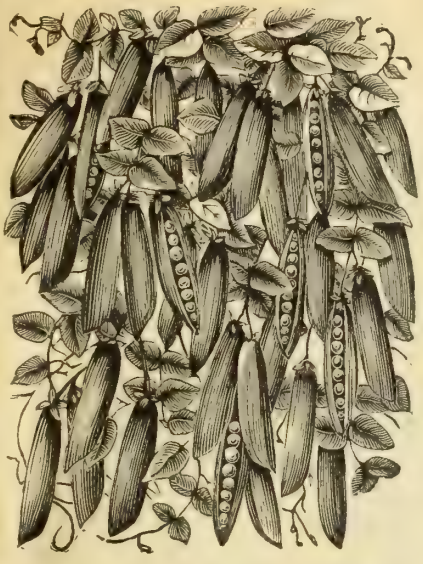
GOLDEN QUEEN.—In shape and size similar to Bull Nose, and of mild flavor; color, yellow. **Pkts. 5c. and 10c. Oz. 25c.**

RED CHERRY.—Pkts. 5c. and 10c. Oz. 20c.

RED CHILI.—Pkts. 5c. and 10c. Oz. 20c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

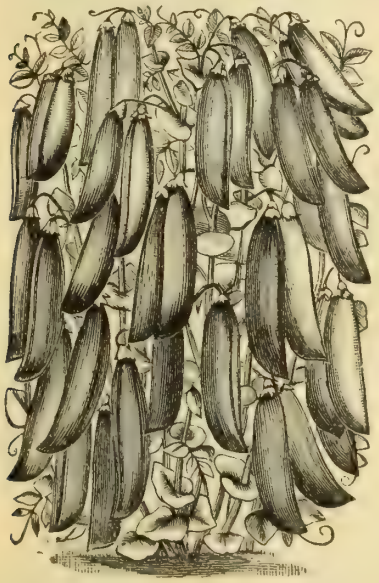
PEAS.



G. & T. CO.'S FIRST EARLY.

(In sealed bags thoroughly rogued and hand picked.)

This is the earliest of all, and the most profitable early market Pea, because of its early maturity, uniformity of growth and ripening, and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually. **Pt. 15c. Qt. 25c. Pk. 90c. Bu. $3.50.**



ADMIRAL DEWEY.

Here we have a most excellent Dwarf Pea, with large, handsome pods; peas of the highest quality. More dwarf than the Stratagem, and about a week earlier in maturing, regular and uniform in growth; vines stocky, healthy and of vigorous growth; pods long, frequently containing 10 peas, of tender and delicious flavor. Don't fail to try it.

Pt. 20c. Qt. 35c. Pk. $2.00.

NOTICE.—In ordering Peas to be sent by mail, please add 8 cents per pint to pay postage.

The dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in a good condition. Plant the dwarf in rows two feet apart. Those varieties attaining the height of from two to three feet in rows three feet apart and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.

CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored and very productive. **Qt. 20c. Pk. 75c. Bu. $2.75.**

FORTY FOLD.—An improvement on the Champion of England. **Qt. 20c. Pk. 75c. Bu. $2.75.**

TELEPHONE.—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled, **Qt. 20c. Pk. $1.00. Bu. $3.75.**

TELEGRAPH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance. **Qt. 20c. Pk. $1.00. Bu. $3.50.**

RURAL NEW YORKER.—Height, 2½ feet. In maturity it is among the first early. **Qt. 20c. Pk. 85c. Bu. $3.25.**

FIRST AND BEST—Height, 2½ feet. Grown with special care. One of the early varieties. **Qt. 20c. Pk. 85c. Bu. $3.00.**

DEXTER (Genuine Stock).—Thoroughly rogued and hand-picked. **Qt. 20c Pk. 75c. Bu. $2.75.**

PHILADELPHIA.—Extra early. **Qt. 20c. Pk. 90c. Bu. $3.25.**

TRIUMPH.—**Qt. 20c. Pk. 90c. Bu. $3.00.**

GRADUS.—The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest, and of vigorous habit. **Pt. 20c. Qt. 35c. Pk. $2.25.**

GRIFFITH'S CANNING.—Medium early, with a vigorous vine, bearing a great profusion of pods closely packed with peas of excellent flavor. **Qt. 20c. Pk. 75c. Bu. $2.25.**

ALASKA.—Our best rogued and hand picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods make this a most desirable sort for canners and shippers, as it can be carried long distances without losing color. **Qt. 20c. Pk. $1.00. Bu. $3.75.**

FRENCH CANNER.—Height, 3½ feet. The celebrated pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods containing seven to nine peas of excellent flavor. **Qt. 20c. Pk. 65c. Bu. $2.00.**

DWARF GREEN WRINKLED MARROW.—An excellent new wrinkled variety. Large pods and very productive. **Qt. 20c. Pk. $1.00. Bu. $3.50.**

LONG ISLAND MARROW.—Very popular in some sections with market gardeners who want a large, handsome pod of deep green color. **Qt. 20c. Pk. $1.00. Bu. $3.50.**

IMPROVED STRATAGEM.—Height, 2½ feet. A large wrinkled, blue pea, of excellent quality; very long, large filled pods. More regular in its growth than the ordinary Stratagem, and every way superior. **Qt. 20c. Pk. $1.25. Bu. $4.00.**

HORSFORD'S MARKET GARDEN.—Height, 2½ feet. A medium early wrinkled variety, highly recommended. **Qt. 20c. Pk. 90c. Bu. $3.25.**

SHROPSHIRE HERO.—A grand new second early wrinkled pea, producing long, handsome, well-filled pods in great abundance. Height, 2½ feet. **Pt. 10c. Qt. 20c. Pk. $1.00. Bu. $3.50.**

GARDENER'S FAVORITE.

Height, 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor, prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort

Pt. 10c. Qt. 20c. Pk. $1.00. Bu. $3.75.

HEROINE PEA.

A medium early green, wrinkled pea, an one of the best of recent introduction; larg curved, showy pods; an immense cropp peas of finest quality. Height, 2 to 2½ f

Pt. 10c. Qt. 20c. Pk. $1.00 Bu. $3.

PEAS.—Continued.

EXTRA EARLY DWARF.

Nott's Excelsior.—Is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large peas, packed so closely together in the pods that the peas are always more square than round. The pods are always well filled with peas, which in sweetness and quality have no superior.
Pt. 15c. Qt. 25c. Pk. $1.50. Bu. $5.50.

American Wonder.—Very luscious in flavor. Try it. Height 12 inches. The earliest wrinkled pea; very productive and sweet. Better suited to the private than to the market garden. **Qt. 25c. Pk. $1.50. Bu. $5.50.**

Premium Gem.—Height 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf pea, very luscious in flavor. **Qt. 20c. Pk. $1.25. Bu. $4.50.**

Blue Peter (or **BLUE TOM THUMB.**)—One of the earliest and hardiest of the dwarf varieties; blue seed, dark green pods; large peas of excellent quality; much superior to the White Tom Thumb. **Pt. 10c. Qt. 20c. Pk. $1.00. Bu. $3.75.**

Pride of the Market.—A medium early dwarf pea of vigorous habit and very productive. The pods are large, of a medium green color, and contain 7 to 9 peas of fine quality; 1½ feet. **Pt. 15c. Qt. 25c. Pk. $1.15. Bu. $4.00.**

Yorkshire Hero.—Height 2½ feet. A wrinkled variety, productive, and of very superior flavor.
Qt. 20c. Pk. 90c. Bu. $3.25.

Advancer.—Height 2½ feet. A green wrinkled variety, introduced some years ago, and has always given satisfaction.
Qt. 20c. Pk. 90c. Bu. $3.25.

Abundance.—Height 30 to 36 inches. An excellent half-dwarf, medium early, wrinkled variety, pods 3½ inches long, containing 6 to 8 large peas of excellent quality.
Qt. 20c. Pk. $1.00. Bu. $3.25.

Everbearing.—Vines about 2 feet high, of a branching character, forming as many as ten stalks from a single root stalk. Peas large and of fine quality.
Qt. 20c. Pk. $1.00. Bu. $3.25.

Admiral.—A very desirable new variety; medium early and very productive, and of good flavor. **Qt. 20c. Pk. 75c. Bu. $2.00.**

Edible Podded or SUGAR PEAS.

Melting Sugar.—**Edible Pods.**—This variety is ahead of all other sugar peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad, handsome light green pods, and are so brittle that they snap without any strings.
Pt. 15c. Qt. 25c. Pk. $1.25.

Tall Gray Sugar.—Edible pods; cooked in the pods same as Snap Beans. **Pt. 15c. Qt. 25c. Pk. $1.50.**

Dwarf Gray Sugar.—Edible pods; quite a favorite.
Pt. 15c. Qt. 25c.

Sugar Marrows.—Height 3½ feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite. **Qt. 20c. Pk. 75c. Bu. $2.25.**

FIELD PEAS.

SEE PAGE 30.

PUMPKIN.

Plant in May, in hills 8 feet apart. Allot ten seeds to each hill, as bugs often destroy the young plants, but only allow two or three healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

MARYLAND SWEET POTATO.—This is the best table pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white stripe. The flesh is a rich yellow color, solid, fine grained, very thick, flavor delicious.
Pkt. 5c. Oz. 10c. 1-4 lb. 20. Lb. 65c.

TENNESSEE SWEET POTATO.—A splendid pie and cooking pumpkin. They grow pear-shaped of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste.
Pkt. 5c. Oz. 10c. 1-4 lb 15c. Lb. 40c.

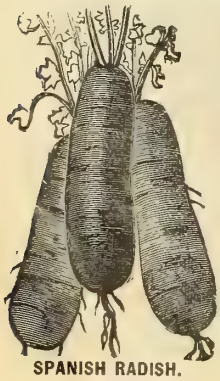
LARGE CHEESE.—Skin, reddish orange; flesh thick, fine and sweet.
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

CASHAW, or CROOKNECK.—Solid flesh, fine and sweet; keeps well.
Pkt. 4c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

CONNECTICUT FIELD.—Very productive and grown for feeding stock. It is so well known that it does not need description.
Qt. 15c. Lb. 30c. Five lbs. 75c. Pk. 75c.

Maryland Sweet Potato.

RADISHES.



SPANISH RADISH.

LONG BLACK SPANISH.—A large winter variety; one of the hardiest, with dark green leaves, firm in texture; keeping until spring.
Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

LARGE WHITE SPANISH, Winter.—Fine keeping quality. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.**

ROUND WHITE SPANISH.—A good fall or winter variety. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.**

ROUND BLACK SPANISH.—A fine globe-shaped Radish, very popular with the Germans, known as Rettig; good quality.
Pkt. 5c. Oz. 10. 1-4 lb. 20c. Lb. 50c.

CINCINNATTI MARKET NEW GLASS RADISH, Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 35c.

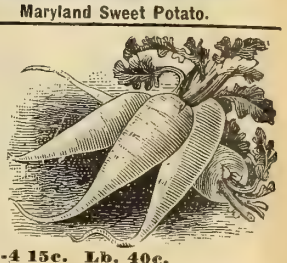
WHITE OLIVE.—Quite salable in market. **Pkt. 5c. Oz. 10. 1-4 lb. 20c. Lb. 50c.**

SCARLET OLIVE-SHAPED.—A showy half-long variety of pretty shape, and bunches beautifully. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.**

CHINESE ROSE WINTER.—Remarkably fine for winter use. The best of the winter sorts. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.**

WHITE CHINESE WINTER.—An excellent White Winter Radish; a good keeper. **Pkt. 5c. Oz. 10c. ¼ lb. 20c. Lb. 50c.**

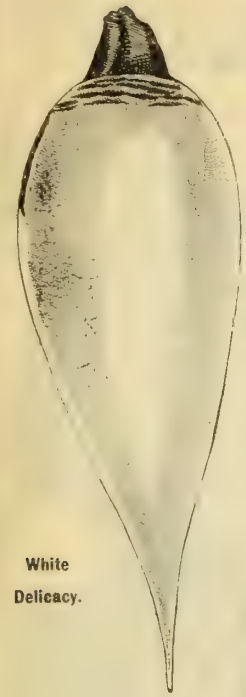
WHITE STRASBURG.—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender. **Pkt. 5c. Oz. 10c. 1-4 15c. Lb. 40c.**



GIANT STUTTGART.—A splendid new variety, of excellent quality; withstands summer heat, **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.**

RADISHES,

(CONTINUED).



White Delicacy.

FOR an early supply sow in hot-bed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly it will be hard, fibrous and disagreeably pungent.

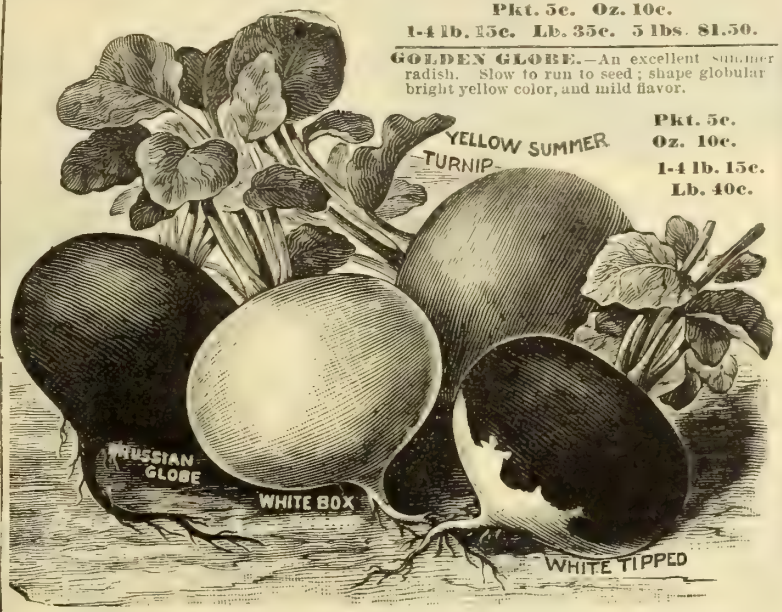
WHITE DELICACY.—This excellent Radish, introduced by us last year, has proved itself all that has been claimed for it. It has become a great favorite with the truckers and market gardeners around Baltimore. Succulent, crisp, delicate, smooth and clean. Among the earliest spring varieties; an improvement on the White Strasburg, which it resembles, being more evenly shaped and smaller-topped; grows into full size and perfection during the hottest months. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.**

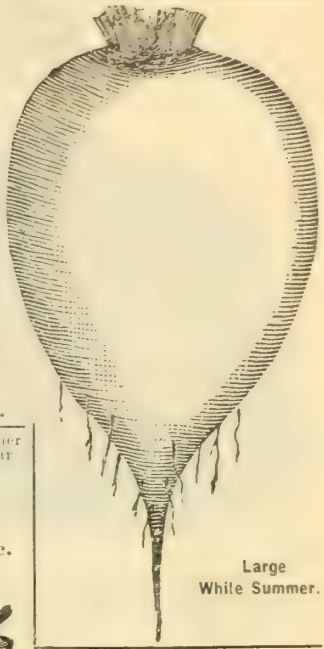
LARGE WHITE SUMMER, The Great Summer Radish.—This is the most popular white radish for summer use with the gardeners around Baltimore, because of its handsome appearance and ready sale, and its well-known quality of being slow to run to seed.

Pkt. 5c. Oz. 10c.
1-4 lb. 15c. Lb. 35c. 5 lbs. $1.50.

GOLDEN GLOBE.—An excellent summer radish. Slow to run to seed; shape globular bright yellow color, and mild flavor.

Pkt. 5c.
Oz. 10c.
1-4 lb. 15c.
Lb. 40c.





Large White Summer.

WHITE BOX.—Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For forcing it is in every way superior. **Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.**

EARLY WHITE TIPPED SCARLET.—An excellent variety for forcing, with very short leaves; bright scarlet in color, with a white tip. **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 50c.**

EARLY SCARLET, or PRUSSIAN GLOBE RADISH.—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

EARLY SCARLET TURNIP.—Turnip shaped, skin red; for forcing. **Pkt. 5c. 1-4 lb. 15c. Lb. 50c.**

FRENCH BREAKFAST.—Of Oval form; color scarlet, white tipped. **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 50c.**

EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely. **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 50c.**

TRIUMPH RADISH—Striped, Red and White.—This is a beautiful and odd radish, which, when mixed in the bunch with Scarlet Radishes, makes a pleasing contrast. The radishes are globe shape and strikingly handsome, having bright scarlet stripes on a white ground. It is a splendid forcing variety, with short top, small leaves, and matures quickly. It is very ornamental for table use. **Pkt. 10c. Oz. 15c. 1-4 lb. 50c.**

WHITE VIENNA, or LADY FINGER.—This is unquestionably the finest long white radish. Of most handsome shape; color a beautiful snow white. It is of very rapid growth, and remarkably crisp, brittle and tender, equally desirable for the market or home garden.

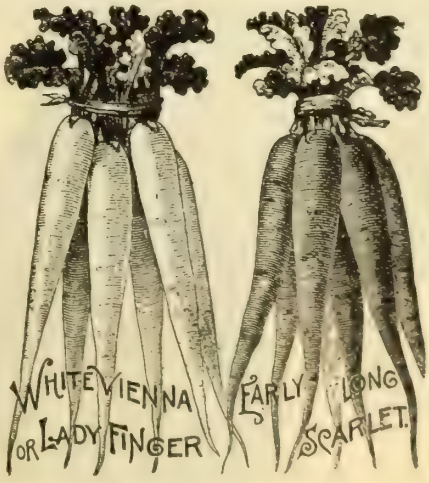
Pkt. 5c. Oz. 10c.
1-4 lb. 15c. Lb. 40c.

LONG SCARLET—(American grown).—Very attractive and sells readily. Owing to its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the Imported Long Scarlet, as generally sold.

Pkt. 5c. Oz. 10c.
1-4 lb. 15c. Lb. 35c.
Five lbs. $1.50.

CHARTIER.—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp.

Pkt. 5c. Oz. 10c.
1-4 lb. 20c. Lb. 50c.



RHUBARB, or PIE PLANT.

SOW in April in drills one inch deep and one foot apart. When plants are large enough, thin to ten inches apart, and cultivate. In the fall or following spring, transplant into deep, rich soil three feet apart each way.

Pkt. 10c. Oz. 15c. 1-4 lb. 50c. Lb. $1.50.

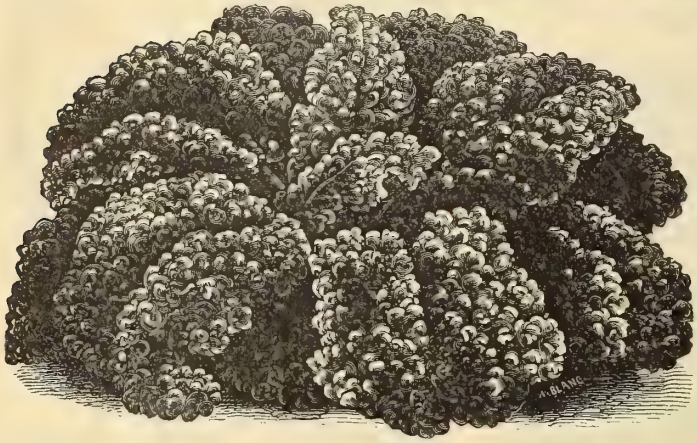
SALSIFY or Vegetable Oyster.

SOW in early spring on light, rich soil in drills fourteen inches apart and thin the plants to six inches in the row. The roots will be ready for use in October, and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.—This new Salsify grows twice the size of the old sort, and superior in quality. Invaluable for market gardeners. **Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. $1.00.**

LARGE WHITE.—The well-known variety. **Pkt. 5c and 10c. 1-4 lb. 25c. Lb. 85c.**

SPINACH.



THIS is quite an important crop with market gardeners, and one easily managed.

For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring use sow in August, and protect the plants through the winter by a thick covering of clean straw or some similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

LARGE ROUND-LEAVED VIROFLAY.—A new sort, with very large, thick leaves.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c.

LONG STANDING.—Best for spring sowing, as it is very slow to seed. The leaves are large, round, unusually thick, curled and of dark green color.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c. 5 lbs. 75c.

CURLED SAVOY, or BLOOMSDALE.—The leaves are fine, curled, large, thick and heavy, and are produced in great numbers.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c. 5 lbs. 75c.

G. T. & CO.'S EXTRA CURLED AMERICAN GROWN SAVOY SPINACH.—This is grown specially for us, and is without exception the best type of Savoy Spinach in existence. It is beautifully curled and wrinkled, the leaves large, thick and heavy, produced in great numbers, and stands handling and transportation better than any other sort; in fact, we hardly think we could say too much about this valuable acquisition to the spinach family. Sold only in sealed bags.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c. 5 lbs. 75c.

VICTORIA SPINACH.—This new spinach comes to us with the highest recommendations from the growers. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance, and of the finest quality, but the most remarkable feature that will make it of special value, both for market and family gardens is the fact that it is in prime condition from two weeks to three weeks after all other varieties of spinach have run to seed.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c.

SQUASH.

THE Squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties, and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

EARLY WHITE BUSH SCALLOP.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

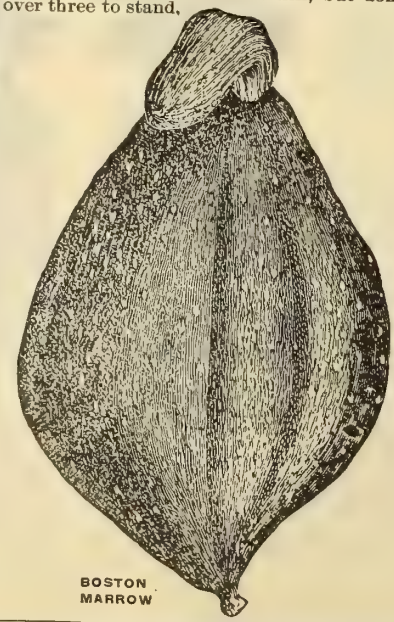
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 30c. 10 lbs. $2.50.

EARLY YELLOW BUSH SCALLOP.—An early, flat scallop shaped variety; color yellow, flesh pale yellow and well flavored, very productive; used when young and tender.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

VEGETABLE MARROW.—A delicious English sort; skin greenish white, flesh white, soft, and of a rich flavor; a heavy cropper, quite distinct from the other sorts. We think every family should plant a package of this squash.

Pkt. 5c. Oz. 10c.



BOSTON MARROW

SUMMER CROOK NECK (Early).—Fine flavor; a desirable table sort.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

HUBBARD.—Fine and desirable for winter use.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

BOSTON MARROW.—A fall and winter variety, very popular in the Boston market. Of oval form, skin thin, when ripe, bright orange mottled with light cream color, flesh rich salmon yellow, fine grained, and for sweetness and excellence unsurpassed, but not as dry as the Hubbard. Fine for pies or baking.

Pkt. 5c. Oz. 10c. ¼-lb. 15c. Lb. 35c. 10 lbs. 300.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore. Established 1860.

TOMATO

GRIFFITH & TURNER CO.'S

WORLD'S FAIR TOMATO.

Get the Genuine in our Sealed Packages.

THE GREAT CANNER.

IT is scarcely necessary to speak of this GREAT TOMATO among those who have used it, because they have become our best advertisers, constantly praising, and persuading others to use it. Our sales of seed of this sort have increased each year far beyond our expectation. It is without exception one of the best for Canners, Market Gardeners or private use, because of its solidity, symmetrical shape, handsome bright red color, uniformity of ripening and freedom from rot. Its shipping and keeping qualities are unexcelled. The gentleman who superintends the growing of this seed for us says: "I desire to call especial attention to this stock; it is particularly solid and of fine flavor, the fruit is good size, smooth and certainly attractive. I venture to say without fear of contradiction that your Tomato will bear off the palm for quality and flavor in the hands of impartial judges. Parties around here who saw some of the fruit said they had never seen any better Tomato." We could get any number of testimonials to bear us out in all we say about this excellent Tomato.

Pkt. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

NOTICE.—Because of the well-known superior quality of this Splendid Tomato, and the increasing demand for the seed, other parties are cataloging a Tomato under the same name. In order to protect those who want the pure article WE GIVE NOTICE that we shall only sell the WORLD'S FAIR TOMATO in sealed packages.

BEWARE OF CHEAP TOMATO SEEDS, saved in canning houses, as it is sure to be a mixture of different sorts. We take special care in growing our Tomato Seeds. We have the seed stocks selected carefully each year, and the crops are inspected by us during the period of growth and maturity of fruit, and we are thus prepared to offer our customers Seed of the first quality.

FOR EARLY FRUIT sow the seed in March or April, in the hot-bed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hot-bed or cold-frame, or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground, at a distance of four or five feet each way. Water freely at the time of transplanting, and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot, and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

Tomatoes will admit of training to stakes or trellis of various kinds, and the fruit is very much improved both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plants up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.

GOLDEN QUEEN, or SUNRISE.—Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 75c.

PEAR-SHAPED RED.—Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 75c.

DWARF CHAMPION.—Plant grows stiff and upright, and may be planted closer than other varieties; bears throughout the entire season. The fruit resembles the Acme, and is smooth and attractive in appearance.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

PONDEROSA.—A remarkably large and heavy-fruited Tomato, deep red in color; flesh very thick, solid and of excellent quality.
Pkts. 10c. Oz. 35c. 1-4 lb. $1.00.

IMPERIAL.—This new variety is highly recommended by leading growers. The originator claims it to be much earlier than any other; a beautiful, symmetrical and meaty Tomato.
Pkts. 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

CRIMSON CUSHION.—In shape and size this resembles the Ponderosa; color is deep red.
Pkts. 10c. Oz. 35c. 1-4 lb. $1.00.

PEAR-SHAPED YELLOW.—Used for preserves and pickles.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 60c.

YELLOW PLUM.—Color bright yellow; excellent for preserving.
Pkts. 5c. Oz. 25c. 1-4 lb. 75c.

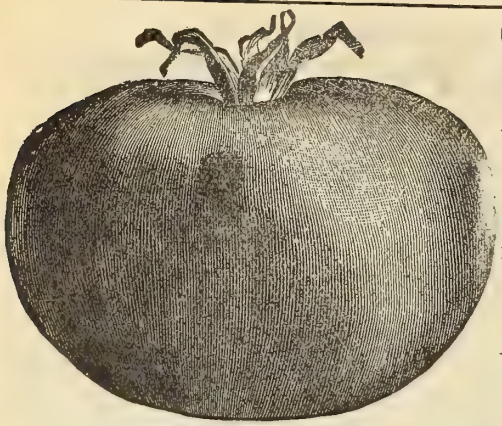
B. B. TOMATO.

B. B. TOMATO (Brinton's Best).—We have secured headquarters' stock of this excellent and popular new variety; it is one of the leading sorts for second early and late use; the fruit is large, handsome, and a splendid keeper. A great favorite with Canners and Truckers. **Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.**

Laurel, Del., March 12, 1894.

The **World's Fair Tomato** I got from you last spring proved to be the best yielder that I have ever grown.

C. E. W[illegible]



BEAUTY.

For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.

Omp, W. Va., April 6, 1900.
Griffith & Turner Co.:
Having used your Tomato Seed last year, am convinced they are *all* good, and knowing this fact, I wish to make another order today, and I trust you will be as prompt as you were with my order of 1899. A. E. Dawson.

TOMATOES. Continued.

ATLANTIC PRIZE (Select Stock).—An excellent extra early red tomato, and while it does not run as regularly smooth as the Paragon, it ripens very evenly.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. $1.50.

FAVORITE.—This is a large, perfect-shaped tomato. One of the best for either canning or market purposes.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.

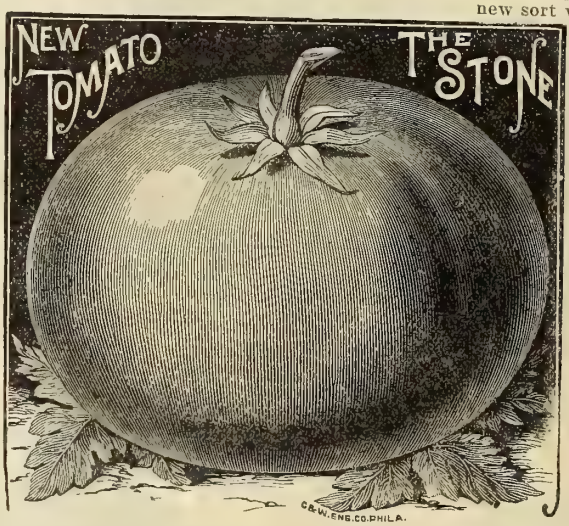
ACME.—Of superlative merit, early, medium size; shape, slightly oval, smooth, and of a pink-purplish color.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.

PARAGON.—Here we have a variety—the perfection of a tomato—large, solid, smooth and handsome, deep red color. It is superb. No praise can be too high.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.

ROYAL RED.—A new tomato, much resembling the Favorite in form and color. A good main crop variety.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.

PRIZETAKER.—A very desirable early sort, large, of handsome shape, and deep crimson color, with a light tinge of purple.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.

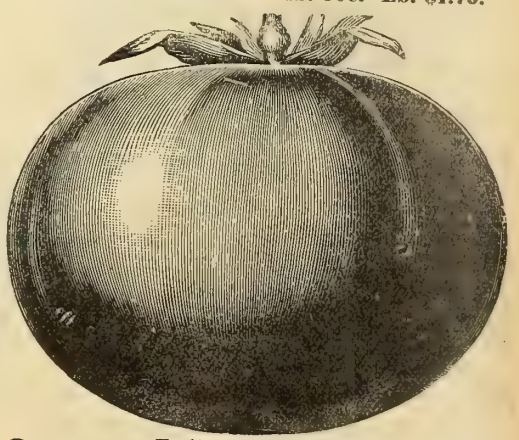
PRIZEWINNER TOMATO.—In this new sort we have the prince of market tomatoes. In color somewhat resembling the Beauty, but much larger, very solid, ripens early, and with us was one of the best keepers we have seen. As an early tomato it is first-class, selling for the highest market price. It is also well adapted for a late crop. It is smooth and uniform in shape, and in quality it cannot be surpassed.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.



Stone.

The New Stone Tomato ripens for main crop; is very large and of bright scarlet color, very smooth, with occasionally a specimen very slightly octagon shaped, ripening evenly to the stem without a crack; exceedingly solid and firm fleshed (as its name indicates). It is an excellent shipper; fine for canning; a good keeper; not subject to rot.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.

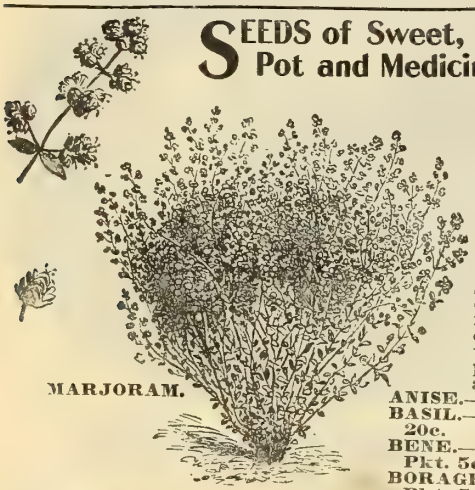
TOMATO HONOR BRIGHT.—We believe this to be a grand acquisition to the list of tomatoes. Its chief peculiarities are its solidity, and changes of color the fruit undergoes during development; first it is light green, then an attractive waxy white, then lemon, changing to red. It is one of the longest-keeping varieties and of excellent quality. If picked in the early stage they can be stored in a cool place, and will keep from one to four weeks.
Pkt. 10c. Oz. 30c. 1-4 lb. 50c. Lb. $1.75.



Queen—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair.
Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c. Lb. $1.25.

TOBACCO.

WHITE BURLEY.—Especially desirable for the manufacture of cigars, as the leaf of this kind readily absorbs a large quantity of manufacturing material.
Pkt. 10c. Oz. 30c. 1-4 lb. 90c. Lb. $3.00.
CONNECTICUT SEED LEAF.—An old well-known variety, best adapted to the Middle States.
Pkt. 10c. Oz. 20c. 1-4 lb. 60c. Lb. $2.00.
HAVANA.—Grown from seed imported from the district of Vuelta de Abajo.
Pkt. 10c. Oz. 35c. 1-4 lb. $1.00.
MARYLAND.—Pkt. 10c. Oz. 25c. Lb. $3.00.



MARJORAM.

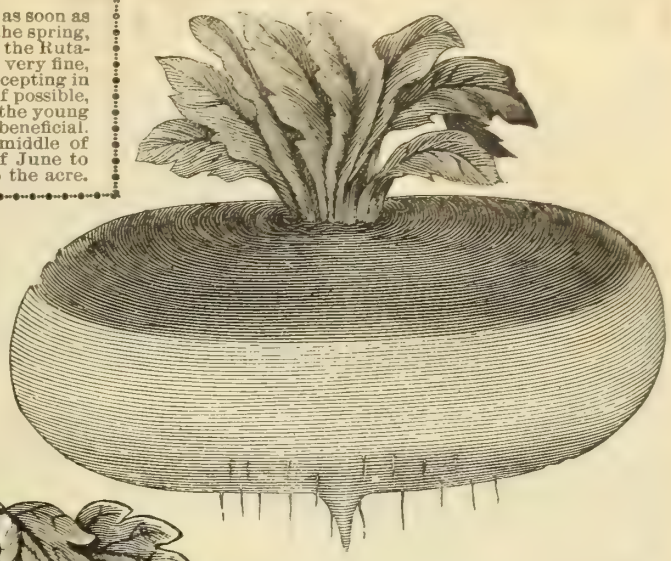
SEEDS of Sweet, Pot and Medicinal Herbs

A little collection of Sweet Herbs is a treasure to the cook and nurse. A small place in the garden will give all the herbs needed in any family, and care should be taken to harvest them properly. This should be done on a dry day before they come into full bloom, then dried quickly and packed closely, entirely excluded from the air. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance apart.

ANISE.—Pkt. 5c. Oz. 20c.
BASIL.—Pkts. 5c. and 10c. Oz. 20c.
BENE.—Used medicinally.
Pkt. 5c. Oz. 20c.
BORAGE.—Excellent for Bees.
Pkt. 5c. Oz. 15c.
CARAWAY.—Pkt. 5c. Oz. 15c.
CHERVIL.—Pkt. 5c. Oz. 25c.
CHICKORY.—Pkt. 5c. Oz. 10c.
CORIANDER.—Pkts. 5c. and 10c. Oz. 15c.
DILL.—Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 65c.
LAVENDER.—Pkt. 5c. Oz. 20c.
MARJORAM.—Pkt. 5c. Oz. 20c. 1-4 lb. 50c.
FENNEL (Sweet).—Pkt. 5c. Oz. 10c. 1-4 lb. 25c.
ROSEMARY.—An Aromatic Herb. **Pkt. 5c. Oz. 30c.**
SAGE (American).—Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 60c. Lb. $2.00.
SUMMER SAVORY.—Pkts. 5c. and 10c. Oz. 15c.
THYME (Broad-leaved English).—Pkts. 5c. and 10c. Oz. 25c. 1-4 lb. 75c.

Turnip

FOR early use, sow the small sorts as soon as the ground can be worked in the spring, in drills fourteen inches apart, the Rutabagas thirty inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Select light, and if possible, new soil, and manure with plaster and ashes, or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August; and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



LARGE EARLY RED TOP GLOBE. A variety of recent introduction. Of large size, rapid growth, unusually attractive. Approved and admired by all who have seen it. A very much heavier producer than either of the Flat varieties and quite as early as the Flat Red Top. Very few market gardeners will have any other kind.

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

YELLOW ABERDEEN, or SCOTCH YELLOW. This a highly approved CATTLE TURNIP, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

LARGE AMBER, or YELLOW GLOBE.—Grows to a large size, flesh yellow, firm and fine grained. Excellent for either table use or feeding stock.

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

Ruta Bagas or Swedes.

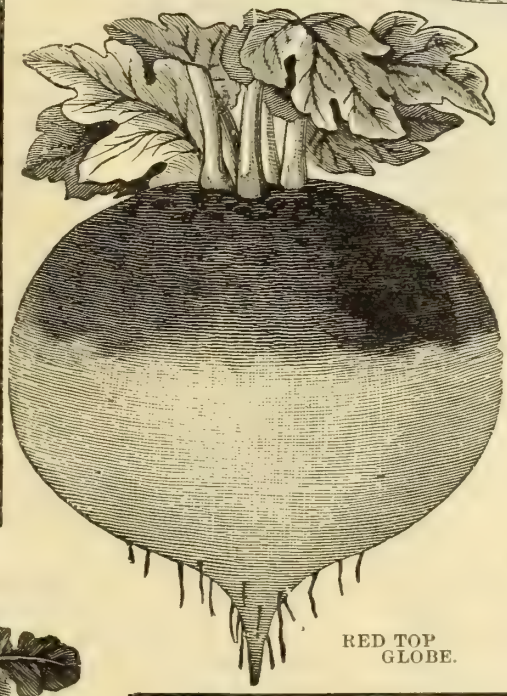
THE Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP.

Yellow fleshed. A standard field variety for stock, and fine for family use. This splendid Swede is the hardiest, most productive, and most nutritious variety in cultivation.

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

YELLOW RUTABAGA.—1-4 lb. 10c. Lb. 25c. (If Turnip is wanted by mail, add 10c. per lb. for postage.)



RED TOP GLOBE.

EARLY RED TOP FLAT.—Fine, sweet, mild; rapid grower; very early and popular.

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

EXTRA EARLY PURPLE TOP MILAN.—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

Pkt. 5c. 1-4 lb. 20c. Lb. 50c.

WHITE FLAT (Strap Leaf).—Differs from Red Top only in color.

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

EARLY WHITE EGG.—A new variety of rapid growth; egg-shaped and white, as its name indicates.

Pkt. 5c. 1-4 lb. 15c. Lb. 40c.

COW-HORN (Large Cropper).—This variety is pure white, excepting a dash of green at the crown, and in shape is long like the carrot.

Oz. 5c. 1-4 lb. 15c.

SEVEN TOP.—For greens and salads. Used largely in the Southern States.

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

SOUTHERN PRIZE.—True strain of the favorite Turnip for Greens in Virginia and the Carolinas. Valued also for its bulb.

Oz. 5c.

RUTA BAGA.

Vegetable Roots.

ASPARAGUS ROOTS.—(See page 1).

ARTICHOKES (Jerusalem).—**Pk. $1.00. Bu. $2.50.** For further information see page 1.

HORSE RADISH ROOTS.—Doz. 20c. Per 100, 75c. Per 1,000, $6.00

RHUBARB ROOTS.—15c. each. Doz. $1.50.

Plants.

CASH WITH ORDER.

☞ We will not ship Plants C. O. D. Shipments at purchaser's risk.

CABBAGE.—40c. per 100. 500 for $1.25. $2.00 for 1000.

TOMATO.—40c. per 100. 500 for $1.25. $1.75 for 1000.

CELERY.—50c. per 100. 500 for $1.25. $2.00 for 1000.

EGG PLANTS, PEPPER, Etc.

FARM SEEDS—Corn, Wheat, Oats, Etc.

YELLOW CORN

IMPROVED MARYLAND YELLOW DENT Our Maryland Dent Corn has taken first premium over all other field corn wherever exhibited. The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield five to ten bushels per acre more than any other corn generally planted.

Qt. 10c. Pk. 40c. Bu. $1.25.
5 bu. $5.75.

WHITE CORN.

IMPROVED WHITE PROLIFIC.—This corn is specially adapted for STRONG ground, exceedingly prolific, very showy, large ears, deep grain, slightly wrinkled, frequently grows two ears to the stalk. Produces heavy fodder; decidedly the best paying corn for strong land.
Qt. 10c. Pkt. 40c. Bu. $1.25.

MARYLAND WHITE.—This is an excellent white corn, grows good sized ears, and makes splendid meal. Produces better crops on average land than most any other variety.
Qt. 10c. Pk. 40c. Bu. $1.25.

BLUNT'S PROLIFIC.—Remarkably prolific, producing from three to five good-sized ears on a stalk and growing very large fodder; is frequently used for ensilage.
Qt. 10c. Pk. 40c. Bu. $1.25.

SOUTHERN SNOWFLAKE.—A well-known and very popular corn through the South. Suitable for meal or feeding purposes; the best white corn for poor land.
Qt. 10c. Pk. 40c. Bu. $1.25.

90-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is a good seller as green corn. Is suitable for either early or late crop. **Qt. 10c. Pk. 50c. Bu. $1.50.**

EARLY LEAMING.—An early selected variety of yellow corn, small grain, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow corn in cultivation.
Qt. 10c. Pk. 40c. Bu. $1.25.

GOLDEN BEAUTY.—A large broad-grained yellow corn, with ears of perfect shape and very small cob. The richness of color and the quality of the grain make it a very superior variety.
Qt. 10c. Pk. 40c. Bu. $1.25.

CHESTNUT GROVE YELLOW CORN.—This Corn was grown on Chestnut Grove Farm, Baltimore county, and the average yield from the whole crop was 18 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color.
Qt. 10c. Pk. 50c. Bu. $1.75.

90-DAY YELLOW.—This is an excellent, quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by Truckers around Baltimore.
Pk. 40c. Bu. $1.25.

THE 100-DAY BRISTOL.—The largest eared, early Yellow Dent Corn in cultivation. The grain is a light golden yellow, large and broad; the cob is small considering the size of the ear. The ears grow an average of about a foot in length, and the growth of fodder is immense.
Qt. 10c. Pk. 40c. Bu. $1.25.

POP CORN.—The best kind for popping.
Lb. 10c. 4 lbs. 25c.
By mail, 20c. per lb.

SEED WHEAT AND RYE.

We can offer choice stocks of Seed Wheat and Rye, recleaned, and at reasonable prices. Write us August 1st for special prices for Fall Sowing.

WINTER TURF OATS.

Perfectly hardy in the Southern and Middle States, standing the Winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain, weighing from 35 to 40 lbs. to the measured bushel. Furnishes excellent Fall, Winter and Early Spring grazing, without injury to the grain crop. Write for prices 1st October.

OATS.

(Thirty-two pounds to the bushel.)

CLYDESDALE.—A very early and productive variety of extraordinary weight.
Per bu. (32 lbs.) $1.00.

WHITE RUSSIAN.—Per bu. 90c.

WELCOME.—An excellent variety, very productive and heavy. **Per bu. (32 lbs.) 80c.**

CHOICE BLACK OATS.—Per bu. (32 lbs.) 75c.

GOOD SEED OATS.—Unnamed varieties.
At Market Prices.

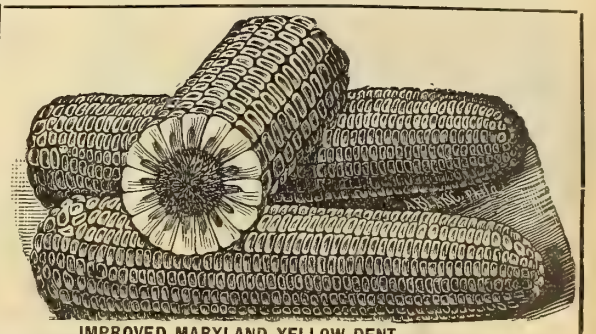
SEED BUCKWHEAT.

JAPANESE.—The best sort. The plants are large and vigorous, maturing their seed early, and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land, and the dry climate of the Western plains. **At Market Prices.**

BARLEY.

MANSHURY SPRING BARLEY.—This is the most productive variety we know, and, having grown it ourselves, can recommend it.
By Express or Freight—Pk. 50c. Bu. $1.25.

NEW BEARDLESS SPRING BARLEY.—The earliest barley known If sown about the 20th of March, will ripen about the 28th of June. The straw is about the height of the common barley, but better, and will stand up on any land. Sow as early as you can; frost does not hurt it. Being beardless, it handles as easy as oats, and makes a stronger feed.
By Express or Freight—Pk. 40c. Bu. $1.25. Bags 20c.



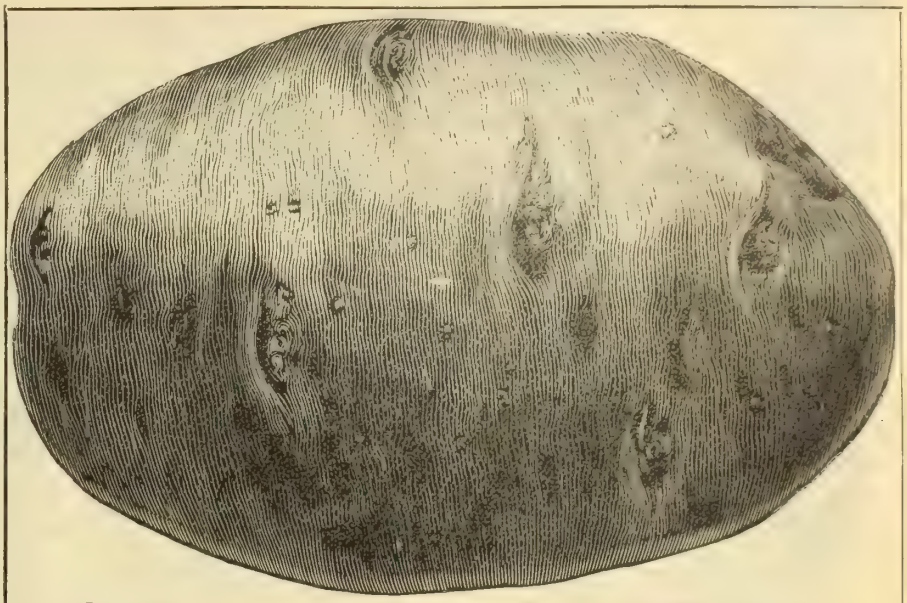
IMPROVED MARYLAND YELLOW DENT.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

POTATOES FOR SEED.

German, Kartoffel.

THE soil best suited to the Potato is a rich, sandy loam, but it seems to thrive in almost any soil or climate. The Potato being a gross feeder, requires a liberal application of manure. If stable manure is to be used, it should be well rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. GRIFFITH & TURNER CO.'s PLANT FOOD is especially adapted for Potatoes, as it promotes growth and, at the same time, prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three to four feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold, wet ground three inches deep; draw the earth to the plants as they advance in growth. If an early crop is desired, sprout the tubers, or cut potatoes, in a light, warm room, from four to six weeks before planting, then lift carefully and plant out. By this process sprouts are obtained that, as soon as planted out in the open ground, will send out shoots and grow more rapidly than if treated in the ordinary way. The soil should be constantly stirred through the season to prevent the surface from baking.



G. & T. Co.'s Extra Early Prize."

G. & T. CO.'S EXTRA EARLY PRIZE. This Potato is in all respects a very superior early sort. It proved to be the earliest and most productive of any we tried; also found its eating qualities first-class. We consider it the best Early Potato on the market today.
Peck, 50c. Bus., $1.60 Bbl. $4.00

CROWN JEWEL.—Described at bottom of page.
Peck, 50c. Bus., $1.25. Bbl., $3.50.

BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless, with all the good qualities of the Early Rose, is much more productive, and matures its crop at least a week in advance of the Early Rose.
Peck, 50c. Bus., $1.60. Bbl., $4.00.

MAINE, or HOULTON EARLY ROSE.—The Early Rose led the list for over thirty years, and is today one of the best early market potatoes. Our stock of this is grown on new land, near Houlton, Maine, is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember, that this stock is not to be confounded with the old run-out Rose, grown in other sections.
Peck, 50c. Bus., $1.50 Bbl., $3.25

NEW YORK EARLY ROSE.—A leading variety for earliness, quality and productiveness.
Peck, 50c. Bus., $1.25. Bbl., $3.00

IRISH COBBLER (a New Sort).—Very productive, matures ahead of the Early Ohio. Shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. The writer's attention was called to this variety while on a tour of inspection, and we concluded to place it in our collection. We believe it is something extra. Don't fail to get it.
Peck, 60c. Bus., $1.60. Bbl., $4.50.

EARLY OHIO.—This is very early and productive, of fine quality, and an excellent keeper.
Peck, 50c. Bus., $1.25. Bbl., $3.50.

EARLY NORTHER.—This superb Potato originated at Caribou, Maine. It resembles the Early Rose in shape and color, matures earlier than the Rose, and is much more productive. Under our own observation the past season it yielded more than the Rose, matured earlier, and was in all respects superior.
Peck, 50c. Bus., $1.50 Bbl., $3.25

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we can recommend it highly.
Peck, 50c. Bus., $1.25 Bbl., $2.75

BURBANK.—This is an old and reliable variety, and is A No. 1 for a late, large-yielding, good-keeping potato, and for table use, after January 1st, is one of the best.
Peck, 50c. Bus., $1.25 Bbl., $2.75

NEW QUEEN.—A grand Potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is seven to ten days earlier, and a heavy yielder. Our seed of this variety comes from Maine, where it originated, and is pure and true to name.
Peck, 50c. Bus., $1.50 Bbl., $3.25

PRICES SUBJECT TO MARKET CHANGES.

Sweet Potatoes.

Choice Jersey Sweets at Market Prices During Season. Write Us for Quotations.

SECOND CROP . . SEED POTATOES.

THE advantage derived from Second Seed over First crop is that they do not sprout or shrivel, or lose any of their vigor through the winter, having been checked by frost before maturity; they lie dormant, ready to grow vigorously when planted. They rarely send up more than one sprout; this may divide into several branches; the consequence is all the growth goes into the tubers. They do not form as many to the hill as matured seed, and they grow full marketable size twelve to fifteen days earlier than ordinary seed.

The following varieties are grown from second crop seed

CROWN JEWEL.—This is a seedling of the Early Ohio. Skin white, with a flesh tint; meat white and floury when cooking evenly through. A very early bearer, and its keeping qualities are equal to the best.
Peck, 50c. Bus., $ $1.25. Bbl., $3.00.

EARLY ROSE.—**Peck, 50c. Bus., $1.25. Bbl., $3.00.**

For large quantities write for Special Prices.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Clover and Forage Seeds.

Cow Peas.

THE GREAT SOIL ENRICHER. MAKES POOR LAND RICH. MAKES GOOD LAND BETTER.

PRICES ON APPLICATION.

BLACK COW PEA.—This is quicker to mature than the Black Eye Pea, and is better adapted for late planting or for growing in districts further north than Virginia. It is a splendid land improver and most valuable as a forage crop, making an enormous yield of rich, nutritious feed. Sow in May or June at the rate of one and a half bushels per acre.

BLACK EYE COW PEA.—The Black Eye Peas are very prolific and bring a good price on our market.

WHIPPOORWILL PEA.—Makes a splendid forage pea. Vines stay green longer than other varieties; pods ripen earlier.

Canada Field Peas.

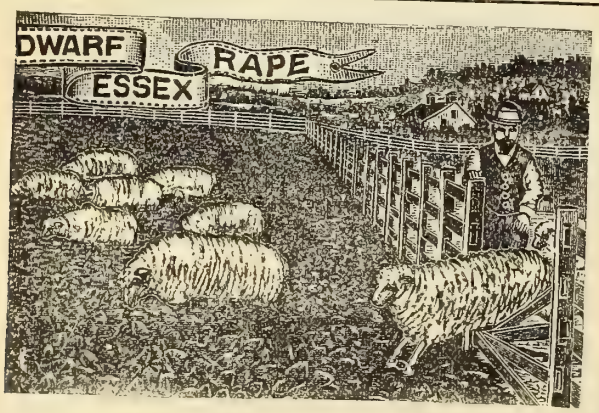
THESE are a most popular and satisfactory forage and hay crop. Sown in February, March or April, with a small quantity of oats, they make a large yield of forage, greatly relished by all kinds of stock. Cures easily, making a splendid hay. Sow one to one and a half bushels per acre broadcast with half a bushel of oats. Cut for hay before the Peas mature. Per peck, **40** cents; bushel about **$1.25.** Write for special prices if a quantity is required.

KAFFIR CORN.

One of the best things offered of late years for a forage plant. The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make excellent feed for poultry, either fed in the grain or ground and cooked. Use four to five pounds to acre. **Lb. 10c. 10 lbs. 50c. 100 lbs. $2.50.**

Early Amber Sugar Cane.

The saccharine matter of this early and productive variety is of the first quality, and produces a fine sugar or syrup. It grows ten or twelve feet high and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Culture same as corn. Sow three or four quarts per acre.
10c. lb. By mail, 20c. Bu. (56 lbs.) $2.00.



DWARF ESSEX RAPE is considered indispensable by the sheep and cattle farmers of Great Britain, and is fast coming into use in this country on account of its rapid growth, being ready to feed in ten weeks from sowing, and producing twenty-five to thirty tons of green forage to the acre. It can be sown all through the season, being perfectly hardy, withstands drought, and will produce a crop in any soil by sowing broadcast at the rate of five pounds to the acre, or in drills or rows two feet apart at the rate of three pounds per acre. It is unequaled as a pasture for sheep, and as a fattening food for all kinds of live stock, it is without a rival. **Lb., by mail, 20c. By express, 5 lbs. 50c. 50 lbs. and over, 7c. per lb.** If wanted by mail, add **8c. per lb.** for postage.

Broom Corn **(50 lbs. to bushel.)**—To grow Broom Corn successfully, the ground should be rich and well prepared. Plant seeds in rows three feet apart by 18 inches. The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

IMPROVED EVERGREEN.—This is the favorite sort; has a fine brush, yields well, and keeps green. Height, 8 to 9 ft. **Qt. 20c. Pk. 75c. Bu. $2.00.**

CRIMSON CLOVER.

THE GREAT NITROGEN GATHERER.

THE best crop for Hay, Silage and green manuring—all winter and spring pasturage. For hay, it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. This popular Clover Seed is grown successfully in Delaware, Maryland and Virginia. The yield of fodder is immense. Its growth is very rapid and luxuriant, and, therefore, it is valuable as a fertilizer to turn under. It is fast becoming a popular crop in the Middle States and the South, and is finding its way into Pennsylvania and the West. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring suitable either for consumption as green food or for hay. Ten or fifteen pounds should be sown to the acre, according to quality of ground.

10c. per lb. By mail, 20c. Per 100 lbs. $8.00.

RECLEANED RED CLOVER.

We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have, however, cheaper grades for those who wish them. **Market prices.**

LUCERNE CLOVER.

One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow 15 pounds to the acre. **Lb. 15c. By mail, 25c. 7 lbs. $1.00. In quantities at Market Prices.**

ALSIKE OR SWEDISH CLOVER.

HARDIEST of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. Valuable for sowing with other Clovers or Grasses, as it forms a thick bottom and increases the yield of hay. Sow 6 pounds per acre when used alone. **Lb. 15c. By mail, 25c. 7 lbs. $1.00. In quantities at Market Prices.**

WHITE DUTCH CLOVER.

THRIVES most everywhere. The best to sow with lawn grass, and valuable to sow with Blue Grass for permanent pastures. **1-4 lb. 10c. Lb. 25c. By mail, lb. 35c. 5 lbs. for $1.00. 100 lbs. $18.**

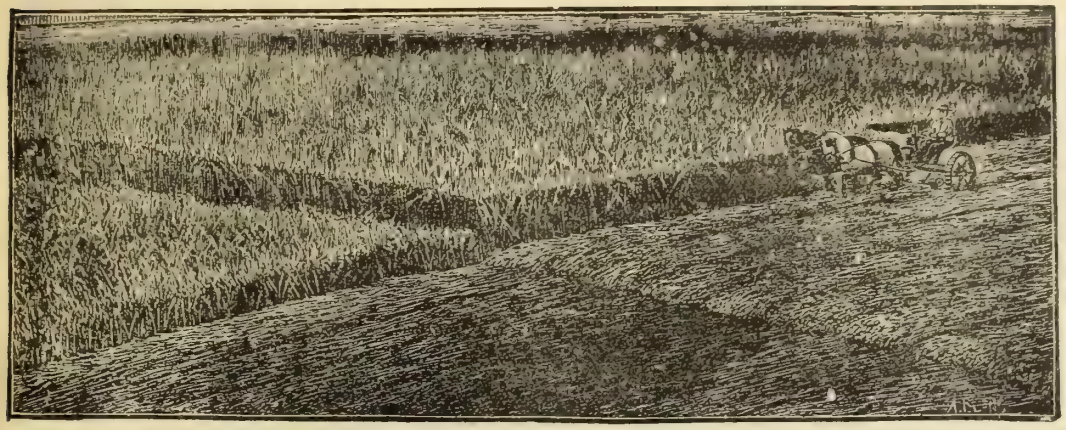
RUSSIAN SUNFLOWER.

GROWING to double the size of the common Sunflower, and the yield of seed is twice as great. It is highly recommended for poultry—the best egg-producing food known. The leaves make splendid fodder, much relished by all kinds of stock. The seed is good feed for horses, and yields a fine quality of oil. **Lb. 10c. By mail, 18c. 4 lbs. 25c. 10 lbs. 50c.**

TEOSINTE.

A MOST valuable and enormous yielding, continuous cutting forage crop. Good to use as green food, and also makes an excellent dry fodder. **Oz. 15c. 1-4 lb. 35c. Lb. $1.00.**

Our Special Grass Mixture for Hay and Permanent Pastures.



Our Permanent

HAY and PASTURE GRASS

is prepared especially to meet the demand for a mixture that will be desirable either for cutting for Hay or to use for Pasture, and contains such grasses as are best adapted for these purposes. In ordering, please state whether you want a mixture for upland or low ground.

MIXTURE FOR UPLAND. 14 lbs to the bu., 2 bu. to the acre. Per bu. **$2.00.** 10 bu. for **$17.50.**

MIXTURE FOR LOWLAND. 14 lbs. to the bu., 2 bu. to the acre. Per bu. **$2.00.** 10 bu. for **$17.50.**

RED TOP GRASS.

ORCHARD GRASS.

Grass Seed.

CREEPING BENT GRASS (Agrostis stolonfera.)—Succeeds in nearly any situation, and is good for lawns or pastures; best adapted for moist situations. About 20 lbs. to the bushel, 2½ bushels to the acre. **Per lb. 35c. Per bu. $3.75.**

ENGLISH RYE GRASS.—A nutritious permanent grass for meadows and pastures. **Qt. 20c. Bu. (24 lbs.) $2.00.**

MEADOW FOXTAIL (Alopecurus pratensis).—An excellent early grass for permanent pasture; medium moist or dry land is best. No grass bears the hot sun better. **Lb. 25c.**

WOOD MEADOW (Poa nemoralis).—An early nutritive grass; thrives well under trees. **Lb. 30c.**

CRESTED DOG'S TAIL (Cynosurius cristatus).—Valuable for dry hard soils and hills. Two to three bushels to the acre. **Lb. 25c.**

SHEEP FESCUE (Festuca ovina).—A grazing grass for dry, sandy and rocky situations. Two to three bushels to the acre. **Lb. 25c. Bu. (12 lbs.) $2.00.**

SWEET VERNAL (Anthum odoratum). Emits an agreeable odor which it imparts to the hay. **Lb. 25c.**

HERD, OR RED TOP GRASS (Agrostis vulgaris).—A valuable native permanent grass, as a mixture in meadows, pastures or lawns, grows best in moist situation. 10 lbs. to the bushel; 2½ bushels to the acre. **Red Top in the Chaff, per bushel 40c. Choice Extra Heavy Seed, per bushel of 10 lbs, 90c. Fancy Clean Seed, very choice, 8 lbs. $1.00, 100 lbs. $10.00.**

KENTUCKY BLUE GRASS.—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it, for either lawn or pasturage. Sow in the spring or fall. **Fancy, triple-cleaned. bu. (14 lbs.) $1.60. 5 bu. $7.50.**
NOTICE.—Beware of cheap Canada Blue Grass as it is full of Thistle.

ORCHARD GRASS (Dactylis glomerata).—One of the most desirable grasses for pastures. Sow under orchards or in shady places. It grows rapidly, thrives in sandy land, and does not suffer from close feeding. Choice Western seed. Not to be confounded with cheap grasses mixed with rye grass. **Bu. (14 lbs.) Fancy Recleaned Seed, $1.60 bu. 5 bus. $7.50.**

TIMOTHY.—The best quality of Timothy Seed at market prices.

ENGLISH BLUE GRASS OR MEADOW FESCUE.—A most excellent hay and pasture grass, as it remains green through Fall and Winter. **Lb.15c. 100 lbs.$11.**

AWNLESS BROME GRASS (Bromus inermis).—This grows coarse, resembling orchard grass, roots deeply and stands protracted drought. Will thrive well on poor soil. Sow two to three bushels to the acre, **Per lb. 20c. By mail 30c. Bu. (14 lbs.) $2.25.**

IMPORTANT.—It does not pay the farmer to buy cheap Grass Seeds, as it is liable to be either old seed or full of weeds.

MILLET

Millet.

GERMAN, OR GOLDEN MILLET.—An improved variety, medium early, growing three to five feet high. The heads are closely condensed, though the spikes are very numerous. This is the best and most productive Millet to grow. Weight, per bushel, 50 pounds. **Market Prices.**

HUNGARIAN MILLET (Panicum germanicum).—Early and productive, growing two to three feet high, with an abundance of foliage and slender heads. Weight, per bushel, 48 lbs. **Market Prices.**

COMMON MILLET.—Weight, per bushel, 50 lbs. **Market Prices.**

Vetches or Tares.

SPRING VETCHES (Vicia sativa).—Closely associated with peas in character. Highly valuable for soiling or for green manuring. Sometimes grown with oats, for mowing and feeding to stock. Use two or three bushels to the acre. Sow in spring, while ground is cool and moist, or in early autumn. **Bushel of 60 pounds. Write for Prices.**

WINTER VETCHES (Vicia villiosa).—Also called Sand Vetch, or Hairy Vetch. Recommended for sowing with rye, as in many localities in the North it is hardy, remaining green all winter. A valuable for stock in early Spring. Use one to two bushels per acre. **Bushel of 60 lbs. Write for Prices.**

Flax Seed.

FLAX SEED. Lb. 10c. 6 lbs. 25c. Bu. $2.00.
FLAX SEED MEAL. For horses and cattle. **10c. per pound. 6 pounds 25c. In quantities at market prices.**

G. & T. CO.'S SPECIAL GRASSES FOR GOLF GROUNDS

Griffith & Turner Co.'s Golf Link Mixture, Bushel $2.50. 10 Bushel Lots, $2.25.
PUTTING GREEN MIXTURE, Peck, 1.10. Bushel, $4.00.

GOLF and Cricket Grounds

There being a growing demand for a Grass Mixture suitable for Golf and Cricket grounds, we have made a study of the grasses best adapted to these purposes, and have them mixed in proper proportions to give desired results.

Many of the public and private grounds around Baltimore and other places have been sown with our Mixtures, and the grounds have won the admiration of thousands of visitors.

As it is highly essential that Golf and Cricket grounds should be mowed closer than ordinary lawns, we have illustrated and described our **GOLF MOWER** (see page 69), designed especially for the purpose. It insures a fine, close, even cut.

CRESCENT LAWN SPRINKLER.

WORKS BEAUTIFULLY.

THIS Sprinkler is compactly and strongly made with PHOSPHOR BRONZE BEARING, and will cover a surface 48 feet in diameter. As it has a free and unobstructed channel, there is no danger of clogging with dirty water, and therefore it fills the requirements of users of such articles better than the more expensive and larger sprinklers, and will accomplish the same results. The top and arms are brass, full nickel-plated standard; the base and legs are iron, handsomely japanned.

Price, 12 in. high,	3	arms			$1.50
" 24 " "	4	"			2.00
" 36 " "	4	"			2.50

ECLIPSE SPRINKLER.

This is the cheapest and one of the most effective sprinklers made. The distribution of water is perfect.
Price **20c.**, by mail, **30c.**

PLANT SPRINKLERS, ATOMIZERS AND SYRINGES.

Page 55.

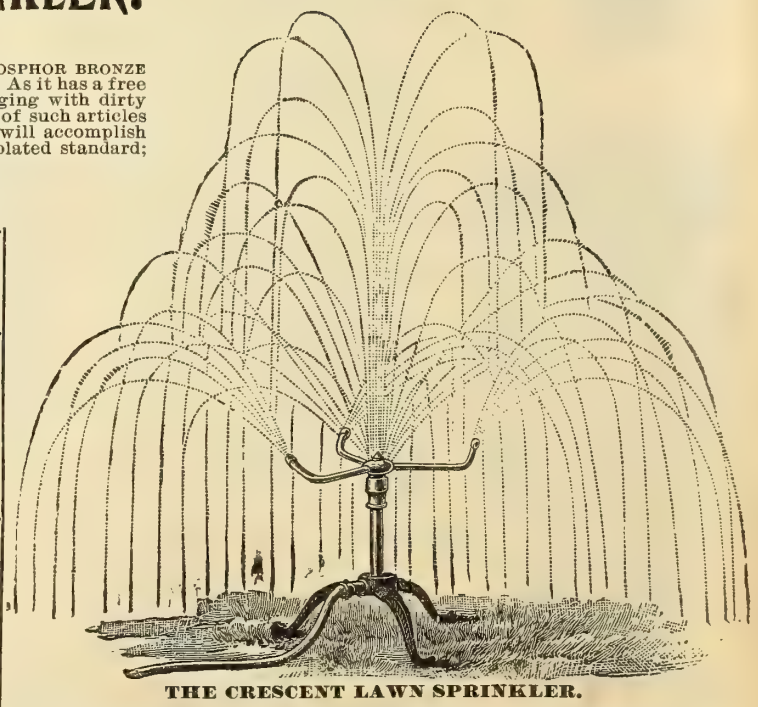
HOSE AND HOSE REELS.

Page 33.

Lyons' Automatic Lawn Feeder.

It is a neat device attached to the hose nozzle, which dissolves a stick of concentrated fertilizer, diffusing it through as much water as will pass through garden hose in about one hour. Complete outfit, consisting of one holder and 12 of the food cartridges, prepaid, to any address on receipt of **75c.**

EXTRA FOOD CARTRIDGES, in boxes of 24, for **50c.** or prepaid for **75c.**



THE CRESCENT LAWN SPRINKLER.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

THE HANDSOME COTTAGE AND LAWN OF MR. JAS. E. INGRAM.

GRIFFITH & TURNER CO.'S EVERGREEN LAWN GRASS.

THIS is a first-class mixture prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results.

Nothing adds to the attractiveness of suburban homes more than a well kept, closely cut, velvety lawn; hence the importance of securing the best seeds. This we offer in our selected Evergreen Lawn Mixture, containing different varieties, that grow and flourish at different months of the year, so that a rich green, velvety lawn is constantly maintained. It is also adapted to the small grass plots of city homes.

Pint, 10c. Quart, 20c. Half Peck, 75c. Peck, $1.15. Bushel of 20 lbs. $4.00.

Preparation and Care of Lawns.

THE ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as level as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start befor cutting, and then it should be trimmed with a lawn mower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

White Dutch Clover.

(Trifolium Repens.)

The best variety for lawns, as it forms a close herbage and remains green throughout the season. It is also valuable when mixed with grass seeds for pasture. Sow in spring at the rate of six pounds per acre when sown alone, half the quantity when sown with other grasses.

Pound.....$ .25
5 pounds.....1.00
100 pounds ... 18.00

OUR LAWN GRASS should not be confounded with the cheap, chaffy grasses offered at less prices.

Park Lawn Grass.

This mixture does not contain so much of the high-priced grasses as our Evergreen Lawn Grass, but it is superior to many of the cheap grades offered, and will make a very nice lawn.

Quart, 20c. Peck, $1.00.
Bushel of 16 lbs. $3.00.

RUBBER HOSE.

Armored or Wired Hose, in 25 and 50-foot lengths, ¾ inch, **16c.** per foot.
G. & T. Co.'s Extra 4-ply, in 25 and 50-foot lengths, **15c.** per foot.
G. & T. Co.'s Extra 3-ply, in 25 and 50-foot lengths, **12c.** per foot.
G. & T. Co.'s Standard 3-ply, in 25 and 50-foot lengths, **9c.** per foot.

GEM HOSE NOZZLES, 35 cts.

The best in use. For throwing fine or coarse spray or straight stream.

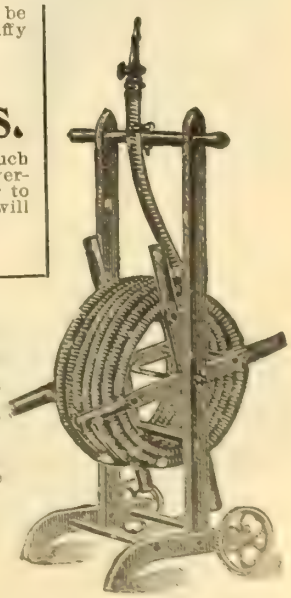
HOSE MENDERS.

COUPLERS.

Brass, for ¾-inch hose, per pair, **15c.**

HOSE REELS.

Hose Reels, Fountain.....$1.00
" " Sylph..... 2.50



ALL KINDS OF MACHINERY REPAIRED.

ORDER BY NUMBER.

Ten 5c. Papers for 25c., or Four 10c. Papers for 25c.

ALYSSUM.

0. ABUTILON.—Fine mixed. **Packet, 10c.**

1. AGERATUM, MIXED.—Suitable for beds, and especially nice for cut flowers and bouquets. **Packet, 5c.**

ALYSSUM (TOM THUMB).

10. ALYSSUM.—The Sweet Alyssum has pretty little white flowers, useful in making small bouquets, and its fragrance, while sufficiently pronounced, is very delicate. The Alyssum grows freely from seed; blooms the whole season. **Oz. 25c. Packet, 5c.**

11. ALYSSUM (Tom Thumb).—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small and remain covered with bloom from spring to autumn. **Oz. 40c. Packet, 5c.**

20. AMARANTHUS, MIXED.—Showy blooming plants, with long racemes of curious looking flowers and brilliant foliage; half hardy annuals. **Packet, 5c.**

LOVE LIES BLEEDING.

21. AMARANTHUS, TRI-COLOR (Joseph's Coat).—Red, Yellow and Green folliage; 2 feet. **Packet, 5c.**

22. AMARANTHUS CAUDATUS (Love Lies Bleeding).—Graceful and handsome flowers of blood red hue. **Packet, 5c.**

23. AMPELOPSIS VEITCHII, Miniature Virginia Creeper, Boston or Japanese Ivy.—A hardy perennial climber from Japan, with olive-green leaves, which turn to scarlet in the autumn. The best and most popular climber for covering brick or stone walls. **Packet, 5c. Oz., 25c.**

24. ANTIRRHINUM, DOUBLE MIXED.—One of our most useful and showy border plants. The recently improved varieties have large, finely shaped flowers of brilliant colors. Perennial. **Packet, 5c.**

25. ASTER.—Choice mixed varieties. Well-known and beautiful flowers; should be in every garden. **Packet, 5c.**

26. ASTER, GERMAN.—All colors and shades of the best German sorts. Sow Seed early and transplant to rich soil. **Packet, 5c.**

PRINCESS SNOWBALL ASTER.

27. ASTER, TRUFFAUT'S PERFECTION.—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florist's preference; 1½ to 2 feet. **Packet, 10c.**

VICTORIA ASTER.

28. PRINCESS SNOWBALL.—This is an entirely distinct variety of Aster. The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant. **Packet, 10c.**

29. MIGNON ASTER.—A splendid new class of Asters. The plants are semi-dwarf and bear in profusion flowers of a very double nature, the petals overlapping each other. **Packet, 10c.**

30. VICTORIA ASTER.—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height 15 to 18 inches. **Packet, 10c.**

31. COMET ASTER.—This class of Asters have long, slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3½ to 4½ inches in diameter, which resemble the Japanese Chrysanthemum, **Packet, 10c.**

32. DWARF CHRYSANTHEMUM FLOWERED ASTER.—Grow 9 inches high; surpass all the dwarf varieties in size of flowers. **Packet, 10c.**

COMET ASTER.

LAWN MOWERS REPAIRED.

Baltimore. Established 1860.

FLOWER SEEDS THAT GROW.

TEN 5c. PAPERS MAILED FOR 25c., or FOUR 10c. PAPERS FOR 25c.

33. SEMPLE'S BRANCHING ASTER. A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence. **Mixed Colors, 10c.**

34. SEMPLE'S BRANCHING ASTER (White).—Very choice. **Packet, 10c.**

35. BACHELOR'S BUTTON, or BLUE BOTTLE (Centaurea Cyanus).—A very old favorite garden annual, with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; two feet. **Packet, 5c.**

40. DOUBLE BALSAMS, CAMELIA FLOWERED (Lady Slipper, or Forget-Me-Not).—The well-known Balsams are one of the finest summer blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double. **Packet, 5c.**

41. BALSAM, PERFECTION WHITE. This resembles the mixed Balsams in shape, but the flowers are of a pure white, and is the variety usually grown by florists. **Packet, 10c.**

45. CANDYTUFT MIXED.—Well-known favorite, hardy annuals; very pretty in beds or masses; useful for bouquets. Seeds may be sown in the fall for early flowering. **Packet, 5c.**

46. CANDYTUFT, WHITE.—Treated and used same as the mixed. **Packet, 5c.**

50. CALCEOLARIA DWARF.—This is a magnificent ornamental plant for green-house or conservatory, bearing in profusion pocket-shaped flowers of all colors, spotted and blotched in the most fanciful fashion. **Packet, 25c.**

53. CALENDULA, DOUBLE.—Very profuse dwarf bushy annuals, blooming continuously and profusely until frost; of easy culture, and suitable for summer garden or for growing in pots in winter. **Packet, 5c.**

55. CANNA, MIXED (Extra Choice).—The Cannas are desirable not only for the beauty of their spikes of scarlet flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate. **Packet, 5c.**

60. CANTERBURY BELLS, SINGLE MIXED (Campanula).—A highly attractive class of plants, combining richness of color with stately growth; valuable for beds and borders. Sow early, and transplant in light, rich soil. **Packet, 5c.**

61. CANTERBURY BELLS, DOUBLE MIXED. Packet, 5c.

CARNATION.—(See Pinks).

CASTOR OIL BEAN SEE RICINUS.

33.—SEMPLE'S BRANCHING.

69. CENTROSEMA GRANDIFLORA. A perfectly hardy perennial vine of rare beauty, which blooms in July from seed sown in April, and bears in great profusion inverted pea-shaped flowers of various colors. **Packet, 5c.**

70. CHRYSANTHEMUMS, SINGLE, MIXED.—Showy and effective garden favorites extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. **Packet, 5c.**

71. CHRYSANTHEMUM FRUTESCENS (The Marguerite, or Paris Daisy).—Immense quantities are grown by French florists, and find a ready sale. It produces freely its white star-like flowers under the most favorable conditions. **Packet, 10c.**

75. CINERARIA (Dusty Miller).—Fine for bedding, ribbon beds and margins; prized for their beautiful downy silvery foliage; half hardy perennials; two feet. **Packet, 5c.**

76. CINERARIA HYBRIDA. Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. **Packet, 25c. 5 for $1.00.**

77. CINERARIA HYBRIDA DWARF—Large flowered, dwarf prize varieties; splendid strain. **Packet, 25c. 5 for $1.00.**

85. COCKSCOMB.

80. CLARKIA, MIXED.—An old favorite hardy annual plant, growing in any garden soil, and producing freely its cheerful flowers early in the season; 1¼ feet. **Packet, 5c.**

85. COCKSCOMBS (Celosia Cristata).—Very popular annuals of the easiest culture, highly ornamental for decoration of the green-house, drawing-room and garden. Half hardy annuals **Packet, 5c.**

86. COCKSCOMBS, GLASGOW PRIZE.—Immense showy dark crimson combs. **10c.**

88. COWSLIP.—Packet, 10c.

89. COLEUS.—Very choice plants with richly colored foliage of maroon, green, crimson, yellow, etc. **Packet, 25c.**

90. CONVOLVULUS, TRI-COLOR MINOR (Dwarf Morning Glory).—A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October. **Packet, 5c.**

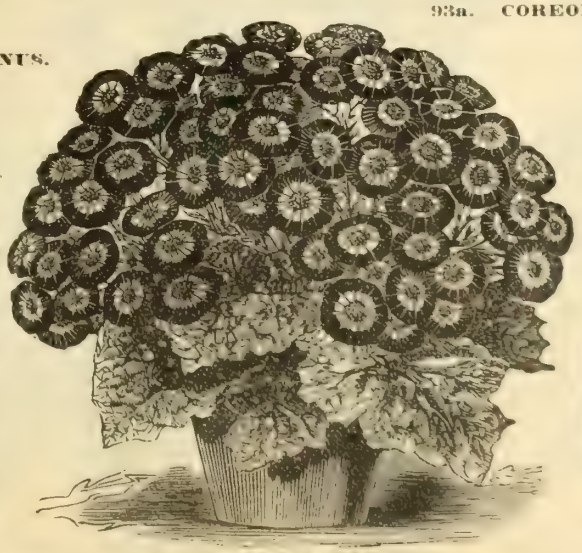
93. COREOPSIS (Calliopsis).—Very handsome and showy plants, with numerous flowers of brilliant colors, and of long duration in bloom.

93a. COREOPSIS LANCEOLATA—IMPROVED (California Sunbeams).—This is one of the finest of hardy plants, with large, showy, bright golden-yellow flowers, freely produced on long stalks, from June till frost; excellent for cutting; will thrive in almost any situation. **Packet, 5c. 1-4 oz. 40c.**

68a. CENTAUREA GYMNOCARPA. Fine cut silver-gray foliage; 1½ feet. **Packet, 5c. 1-4 oz. 25c.**

68. CENTAUREA CANDIDISSIMA. Silver white; leaves broadly cut. **Packet, 5c. 1-4 oz. 25c.**

40.—DOUBLE BALSAMS.



76.—CINERARIA HYBRIDA.

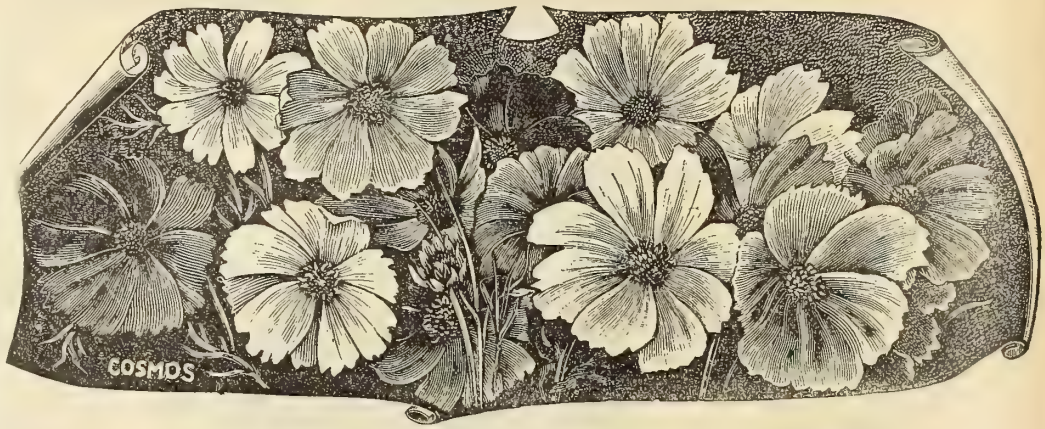
50. CALCEOLARIA, DWARF.

SELECTED FLOWER SEEDS

TEN 5c. papers mailed for 25c. or FOUR 10c. papers for 25c.

COSMOS.

Large flowering. Sow early in spring, and transplant when danger from frost is past. The flowers are borne profusely, and present a charming appearance when in full bloom, being covered through the autumn months with hundreds of showy blossoms. They are very easily raised and make a grand display.



94. TINTS OF DAWN COSMOS.—This new variety comes into full bloom in July, and continues a mass of bloom until cut down by severe frost. In addition to this, it is of dwarf growth, and large flowers.
Pkt. 10c. 1-4 oz. 50c.

95. COSMOS, Mixed.—5c.
1-4 oz. 20c. Oz. 50c.

95a. COSMOS, Pink.—5c.

95b. COSMOS, White.—5c.

95c. COSMOS, Crimson.—5c.

95d. NEW MARGUERITE COSMOS.—One of the prettiest and

96. CYCLAMEN, PERSICUM GIGANTEUM, MIXED.—Charmdaintiest varieties imaginable. **Packet, 10c.**
ing plants with beautiful foliage and rich colored fragrant flowers.
Packet, 25c. 5 for $1.00.

97. DAISY, MIXED.—Well-known favorites, admirably adapted for edgings, borders and low beds, and it is also suited for growing in pots. Although they are perennials, they will flower the same season if seed is sown early in the house.
Packet, 10c.

98. DAISY, LONGFELLOW.—This is a very pretty, large, double-pink variety.
Packet, 10c.

99. DAISY, SNOWBALL.—An unusually large-flowered variety, and produces very double, pure white flowers.
Packet, 10c.

DAHLIA.

One of our best autumnal flowering plants. Blooms until killed by frost; tuberous-rooted, half-hardy perennials; blooming the first year from seed, if sown early.

100. SINGLE MIXED.—Large, showy single flowers. **Packet, 5c.**

100a. CACTUS DAHLIA.—A most curious and desirable variety of many colors.
Packet, 5c.

DIANTHUS.—(See Pinks).

100½. DIANTHUS—ORIENTAL BEAUTIES.—A magnificent strain of new large-flowering Dianthus from Japan. The colorings and markings are rich beyond description; very dainty and pretty with their charming ruffles and frills. Hardy and perpetual bloomers. **Packet, 10c.**

101. ETERNAL FLOWER (Helichrysum).—These are very popular and desirable for winter decoration, bouquets, wreaths, etc. They should be cut when they come into full bloom, tied into bunches, and dried in the shade with their heads downward. **Packet, 5c.**

103. FEVERFEW (GOLDEN FEATHER) (Pyrethum Aureum).—A highly ornamental golden yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½ feet. **Packet, 5c.**

105. FORGET-ME-NOT (Myosotis).—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed, if sown early. **Packet, 5c.**

106. FOXGLOVE (Digitalis).—A handsome and highly ornamental, hardy perennial plant of stately growth; fine for shrubberies and other half-hardy places; 3 feet.

107. GERANIUM (New Zonale).—A grand strain of Geraniums, containing all shades of colors. **Packet, 10c.**

108. GODETIA—Finest Mixed.—Fine, profuse blooming hardy annuals.
Packet, 5c.

Daisy.

Helitrope.

Four O'clock.

Larkspur.

Marigold.

109. GAILLARDIA.—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals.
Packet, 5c.

110. GILIA, MIXED.—Very pretty dwarf plants, early, free blooming, fine for massing and rock work. Hardy annuals.
Packet, 5c.

111. GLOXINIA.—Large flowering, choice mixed. Produces in great profusion large bell-shaped flowers of the richest variety of colors.
Packet, 25c.

112. HELIOTROPE.—These are deliciously fragrant flowers, remaining in bloom a long time; fine for pot culture or bedding; half-hardy annuals. **Packet, 5c.**

115. HOLLYHOCK, CHATERS SUPERB MIXED.—This is one of the oldest inhabitants of our gardens; now ranks as one of the finest autumn flowers.
Packet, 5c.

116. HOLLYHOCK, CHATERS DOUBLE WHITE.—Largely used by florists. **Packet, 10c.**

119. LANTANNA.—Of compact growth, and very profuse bloomers.
Packet, 5c.

120. LARKSPUR (Delphinum).—One of our most showy and useful plants, possessing almost every requisite for adornment of the garden. **Packet, 5c.**

121. LARKSPUR EMPEROR.—Of symmetrical bushy habit, with a profusion of brilliant dark-blue, red-striped and tricolored flowers. **Packet, 5c.**

LOBELIA.

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets, because of its trailing habits. Grows easily and does well in beds and rockeries. Bears a profusion of blue and white flowers. Annuals.

122. MIXED VARIETIES.—5c.

123. CRYSTAL PALACE COMPACTA.—Rich deep blue. The finest for bedding.
Packet, 10c.

125. MARIGOLD, DOUBLE AFRICAN.—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers.
Packet, 5c.

126. MARIGOLD, DOUBLE FRENCH. Of compact habit, with numerous bright, showy flowers. Very fine. **Packet, 5c.**

130. MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa).—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. 2 feet.
Packet, 5c.

131. MATTHIOLA BICORNIS. — Very fragrant at night. **Packet, 5c.**

133. MESEMBRYANTHEMUM CHRYSTALINUM (Ice Plant).—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. It belongs to the half-hardy annuals.
Packet, 5c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore. Established 1860.

FLOWER SEEDS THAT GROW

Ten 5c. Papers mailed for 25c. or Four 10c. Papers for 25c.

134. MIMULUS.—The beautiful Monkey Flower. **Pkt. 5c.**

Mignonette

(SELECTED STOCK)

135. MIGNONETTE—SWEET (Reseda Odorata).—A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. **Pkt. 5c. Oz. 15c.**

136. MIGNONETTE — PYRAMIDAL.—(Large flowered.)—The largest flowered of all Mignonettes. Annual. **Pkt. 5c. Oz. 15c.**

137. MACHET MIGNONETTE.—Well adapted for pot culture; dwarf pyradimal growth; bearing numerous flower stalks; one of the best. **Pkt. 10c. 1-4 oz. 20c. Oz. 50c.**

138. MIGNONETTE VICTORIA.—A splendid, new, compact growing variety of dense pyramidal habit, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden. **Pkt. 10c.**

139. ALLEN'S DEFIANCE.—When grown under favorable conditions and with proper care spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety. **Pkt. 10c. 1-4 oz. 25c. Oz. 75c.**

140. GOLDEN MACHET MIGNONETTE.—Distinct new variety of the well-known Machet, of the same compact and robust habit, but differing from the type by its massive spikes of golden-yellow blossoms. **Pkt. 5c. 1-4 oz. 20c. Oz. 50c.**

DEFIANCE MIGNONETTE.

Nasturtium

142. DWARF MIXED.—The dwarf variety of Nasturtium is among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color and profusion of bloom; mixed colors. **Pkt. 5c. Oz. 10c.**

143. DWARF NASTURTIUM—AURORA.—Blush white and salmon, blotched with garnet. **Pkt. 5c. Oz. 15c.**

144. DWARF NASTURTIUM—BEAUTY.—Bright scarlet, striped with yellow. **Pkt. 5c. Oz. 15c.**

145. DWARF NASTURTIUM (Empress of India).—Very dark foliage, with deep crimson flowers. **Pkt. 5c. Oz. 25c.**

146. DWARF NASTURTIUM (Golden King).—Brilliant yellow. **Pkt. 5c. Oz. 15c.**

NASTURTIUM.

147. DWARF NASTURTIUM (King of Tom Thumbs).—Brilliant yellow flowers, [illegible] with maroon, measuring three inches across. **Pkt. 5c. Oz. 15c.**

148. DWARF NASTURTIUM—Ruby King. Light ruby red. **Pkt. 5c. Oz. 15c.**

149. DWARF NASTURTIUM (Cloth of Gold).—Golden yellow foliage, light scarlet flowers. **Pkt. 5c. Oz. 20c.**

150. KING THEODORE — DWARF.—Black brown foliage. **Pkt. 5c. Oz. 15c.**

151. CRYSTAL PALACE GEM.—Sulphur, maroon spot. **Pkt. 5c. Oz. 15c.**

TALL NASTURTIUM.—**(See 310).**

Oxalis

153. OXALIS.—Pretty little half-trailing annuals for hanging baskets. Mixed annual sorts. **Pkt. 10c.**

Pansies

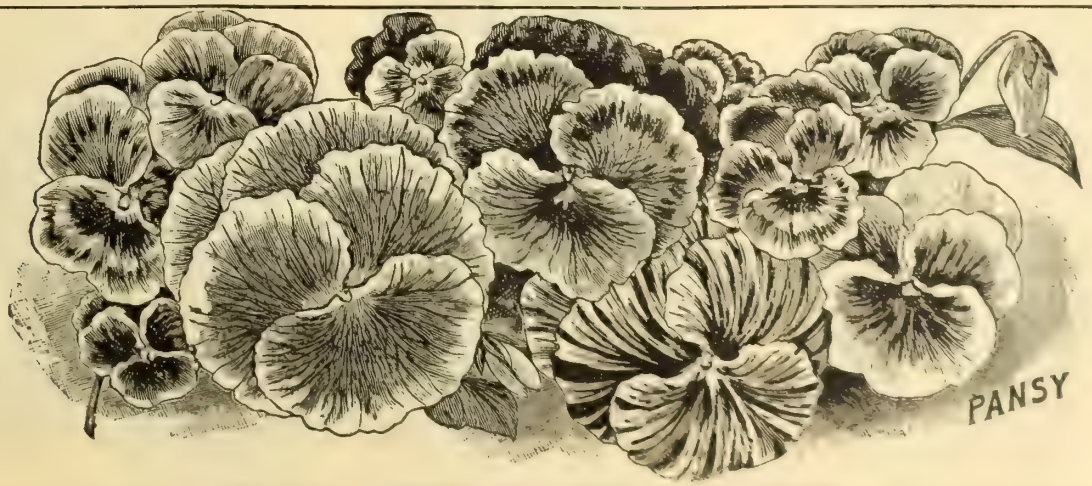
Our strain of Pansies is the equal of any.

155. PANSY, HEARTSEASE (Viola Tricolor).—Choice mixed. An old but universally admired plant, producing an endless variety of color, marking and texture. They may be treated as annuals, as they flower the first season from seed; six inches. **Pkt. 5c. 1-8 oz. 35c.**

156. PANSY, GIANT TRIMARDEAU.—Remarkable for the extra large size of the flower and an endless variety of beautiful shades. **Pkt. 10c. 1-8 oz. 50c.**

157. PANSY, G. & T. CO.'S EXTRA MIXED.—This mixture, containing the finest blotched varieties, is grown and selected with special care, and has given the most satisfactory results to both florists and amateurs for the past two years. **Pkt. 15c. Two pkts. 25c. 1-8 oz. 75c.**

158. PANSY (Bugnot's Exhibition).—A celebrated strain of extra large size, beautiful colors, with handsome broad blotches, and finely pencilled with stripes of delicate hue. The ground colors are generally dark, which, with light pencilling and blotches, make a magnificent flower. They are a small seeder. **Pkt. 25c.**



GRIFFITH & TURNER CO.'S EXTRA MIXED PANSIES.

THE BEST FLOWER SEEDS.

Ten 5c. Papers, mailed, for 25c., or Four 10c. Papers for 25c.

181. PINK, CARNATION (Riviera Market, or Gillaud).— This is the only variety that will produce yellow flowers the first season. The mixture we offer contains a magnificent variety of colors and shades, having among them flowers of canary yellow, and also striped yellow. They will thrive either in open ground or pots. **Pkt. 25 cents.**

PINK—CHINA.

162. PASSION FLOWER (Southern Beauty).—A most interesting and well-known order of climbers, bearing singularly beautiful flowers.
Packet, 10 cents.

Petunias

165. PETUNIA.— Favorite, half-hardy perennials, succeeding well in any rich soil. For the brilliancy and variety of the colors and the long duration of their blooming period, they are indispensable in any garden.
Packet, 5 cents.

166. SINGLE-FRINGED MIXED PETUNIA.—Large flowers, four to five inches across, of every hue, each flower being beautifully fringed. **Packet, 25 cents.**

167. DOUBLE PETUNIA.—About 30 per cent. will produce double flowers. **Packet, 25 cents.**

168. PETUNIA — Double-Fringed Mixed.—The flowers of this sort being double, together with being fringed, are very beautiful. **Packet, 25 cents.**

PHLOX DRUMMONDII

175. PHLOX DRUMMONDII.—A most brilliant and beautiful hardy annual, about one foot high, well adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil.
Packet, 5 cents.

176. PHLOX DRUMMONDII— (Nana Compacta).—Very fine mixed. This new strain is of dwarf, compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing.
Packet, 10 cents.

Pinks

180. PINK — CARNATION, or PICOTEE. — Choicest Double Mixed (Dianthus Caryophyllus).—Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial. **Packet, 10 cents.**

Carnation

182. PINK—CARNATION (Marguerite).—Will produce flowers in a few weeks from seed. Profuse bloomers, producing very double flowers of all shades of red, pink, white and variegated. Will bloom all summer until frost, or indoors in winter in pots.
Packet, 10 cents.

185. PINK — CHINA (Dianthus Chinensis).—Free bloomers, and a general favorite for bouquets; also a useful bedding plant.
Packet, 5 cents.

188. PINK — HEDDEWIGII. — Beautiful double flowers in a great variety of colors, with fringed white edges.
Packet, 5 cents.

189. PINK — JAPAN. — Beautiful double flowers, mixed, of various colors, with the outer edges fringed and nearly white.
Packet, 10 cents.

195. PORTULACA (Mexican Rose).—One of our finest hardy annual plants, of easy culture, thriving best in rather rich, light loam or sandy soil; the single-flowering varieties are large and brilliant, of the richest shades of color, and produced throughout the summer in great profusion; fine for massing in beds or edgings of rock work.
Packet, 5 cents.

196. DOUBLE PORTULACA.
Packet, 10 cents.

A BED OF PHLOX DRUMMONDII GRANDIFLORA, MIXED.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

The Best Flower Seeds

Ten 5c. Papers Mailed for 25c., or Four 10c. Papers for 25c.

200. POPPY-CARNATION (Papaver).—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil.

Packet, 5c.

201. POPPY—PEONY FLOWERED.—A magnificent species, large, showy, double globular flowers, resembling Peonies in shape.

Packet, 5c.

202. SHIRLEY POPPY.—These beautiful Poppies are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days.

Packet, 5c.

203. TULIP POPPY.—A magnificent species from Armenia. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet.

Packet, 5c.

204. ICELAND POPPIES, MIXED.—Although hardy perennials, these Poppies bloom the first season from spring-sown seed. The fragrant, elegant, crushed satin-like flowers are produced in never-ceasing succession from the beginning of June to October.

Packet, 5c.

205. POPPY—IRRESISTIBLE.—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose.

Packet, 5c.

210. ENGLISH PRIMROSE (Primula Vulgaris).—No collection of spring flowers is complete without a few of these charming little plants. A little covering in the late fall will protect them from the severe weather of winter, and the great number of flowers produced will more than repay you the extra trouble. They are not as generally grown as they should be.

Packet, 10c.

211. CHINESE PRIMROSE (Primula Fringed).—This variety is much prettier than the English, being fringed and of the most beautiful colors. They differ from each other like the double and single Petunias.

Packet, 25c.

TULIP POPPY.

212. RICINUS, MIXED VARIETIES.—Ornamental plants of stately growth and picturesque foliage; fine for lawns, massing or center plants for ribbon beds; half-hardy annuals.

Packet, 5c.

212½. RICINUS ZANZIBARIENSIS, MIXED.—Their immense leaves and gigantic plants exceed all other varieties.

Packet, 5c.

213. SCABIOSA—GRANDIFLORA.—A wonderful improvement over the old variety; bears beautifully formed flowers three inches in diameter.

Packet, 10c.

215. SCARLET SAGE (Salvia Splendens).—A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half-hardy perennial, blooming the first year from seed. Three feet.

Packet, 5c. 1-4 oz., 75c.

216. SCARLET SAGE—CLARA BEDMAN (Bonfire).—The finest Salvia ever introduced.

Packet, 5c. 1-4 oz., 75c.

CHINESE PRIMROSE.

220. SENSITIVE PLANT (Mimosa).—Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual.

Packet, 5c.

SNAP DRAGON.—See Antirrhinum.

Packet, 5c.

230. TEN WEEKS' STOCKS (Gilliflower).—A world-wide favorite, brilliant and varied in color, equally well adapted for massing, bedding, edging or pot culture. Very profuse bloomers. Should be grown in rich soil.

Packet, 5c.

231. STOCKS—SNOWFLAKE IMPROVED.—A beautiful dwarf-growing variety; very large, double, snow-white flowers. Our seed of this variety is grown by a specialist, and will produce a large percentage of double flowers.

Packet, 10c.

SWEET WILLIAM.

235. SUNFLOWER (Helianthus).—Remarkable for the stately growth, size and brilliancy of their flowers, making a very good effect among shrubbery and for screens. The seed is also good for feeding poultry.

Packet, 5c.

237. SWEET ROCKET (Hesperis). Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil.

Packet, 5c.

240. SWEET WILLIAM (Dianthus Barbatus).—A well-known, free-flowering popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennial.

Packet, 5c.

243. SWEET VIOLET.—Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor.

Packet, 10c.

244. TORENIA.—Charming plants for pot-culture, vases or hanging baskets. They succeed well also in the open ground in summer, and are very attractive in beds or masses.

Packet, 5c.

SCARLET SAGE.

Choice Flower Seeds

Ten 5c. Papers mailed for 25c. or Four 10c. Papers for 25c.

MAMMOTH VERBENA.

245. MAMMOTH VERBENA.—One of the most popular and useful bedding plants. Verbenas delight in sunny situation, rich soil and thorough cultivation. **Packet, 5c.**

247. VINCA.—Small bushy plants, producing in quantities round single flowers the first season, if sown early. They may be potted and kept all winter.

250. VINCA ROSA.—Rose with dark eye. **Packet, 5c.**

ZINNIAS.

251. VINCA ALBA.—White, with crimson eye. **Packet, 5c.**

255. WALLFLOWER, DOUBLE. — Well-known, deliciously fragrant plants, with large spikes of double flowers, similar to the Gilliflower. Succeed in light, rich soil, in a moist atmosphere. Perennials. **Packet, 10c.**

258. ZINNIA ELEGANS (Youth and Old Age). — This is one of the most brilliant of annuals, and has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. **Packet, 5c.**

259. ZINNIAS CURLED AND CRESTED.— New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors. **Packet, 5c.**

260. ZINNIA—DOUBLE POMPON.—Long cone-shaped flowers, very fine. **Packet, 5c.**

261. ZINNIA—ZEBRA FLOWERED.—Packet 5c.

General List of Climbers.

270. BALSAM APPLE (Momordica). — Very curious trailing vines, with ornamental foliage, fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. **Packet, 5c.**

272. BALLOON VINE (Love in a Puff). — A rapid growing plant; succeeds best in a light soil and warm situation; flowers white; half-hardy annual. **Packet, 5c.**

275. CANARY BIRD FLOWER (Peregrinum).— With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy annual. **Packet, 5c.**

276. COBEA SCANDENS. — A beautiful, rapid growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows twenty to thirty feet high. **Packet, 10c. Oz. 40c.**

BALSAM APPLE.

278. CYPRESS VINE, RED (Ipomea Quamoclit). — One of our most popular vines, with very delicate, fern-like foliage, and masses of beautiful, small, star-shaped flowers. Sow last of May; fifteen feet. **Packet, 5c.**

279. CYPRESS VINE, WHITE. — Usually grown with the red, making a handsome effect. **Packet, 5c.**

282. MAURANDIA (Barclayana). — These charming climbers cannot be too highly praised for their beautiful flowers and foliage; they are admirably adapted for hanging baskets, vases or trellis work. **Packet, 5c.**

285. MIXED GOURD (Cucurbita).— Rapid growing, interesting plants, with ornamental foliage and varieties of singular shaped fruit; annual. **Packet, 5c.**

286. NEST EGG GOURD.—White fruit, shaped like an egg. Used as a substitute for nest eggs. **Packet, 5c.**

287. DISH CLOTH GOURD.—Packet, 5c.

288. DIPPER GOURD.—Packet, 5c.

290. MOCK ORANGE.—Fruit shaped like an orange. **Packet, 5c.**

295. HEAVENLY BLUE IPOMEA.—The flowers are in large airy clusters and of that lovely blue so rarely seen. Flowers four to five inches across. **Packet, 5c.**

MIXED GOURDS.

CHOICE FLOWER SEEDS.

CLIMBERS.

(CONTINUED).

300. MORNING GLORY (Convolvulus Major).—One of the most free flowering and rapidly growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. **Packet, 5c.**

301. NEW BRAZILIAN MORNING GLORY.—Packet, 5c.

302. GIANT JAPANESE MORNING GLORY.—This plant has been developed to such a state of perfection that it now produces flowers of immense size and almost endless variety of color and markings. Some of the flowers are brilliant red, or rich blue self colored; others are equally brilliant with broad margins of clear white. Some blossoms are striped and dotted with blue or red on white or lemon-yellow ground; others clouded with blue and red; in fact, one may expect to find some new and exquisitely beautiful markings every morning. Not only are the flowers varied, but the foliage is equally so; some of it comes plain green, and part is mottled with white and shades of yellow or yellowish green. Vines grow 30 to 40 feet high. **Packet, 10c.**

305. MOON FLOWER (Ipomoea noctiflora).—Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure, suits them. **Packet, 5c.**

310. TALL NASTURTIUM (Tropaeolum Major).—Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for picking.
Packet, 5c. Oz. 10c.

320. SCARLET RUNNERS.—Very handsome, climbing Beans, with bright scarlet flowers. **Packet, 5c.**

326. SMILAX.—Charming climber for greenhouse or window gardens.
Packet, 5c. 1-2 oz. 25c. Oz. 40c.

JAPANESE MORNING GLORY.

No lover of flowers should be without a bed of . . Sweet Peas. . . . . .

Sweet Peas

Our list comprises the . . Best Varieties. . . . .

Ten 5c. papers mailed for 25c., or Four 10c. papers for 25c.

SWEET PEAS still hold a place in the first rank among flowering plants. But few plants are grown more easily, and grown in masses of separate colors or in mixture their beauty and fragrance cannot be surpassed. We offer in our list an assortment of the choicest varieties.

CULTURE.—Sweet Peas should be sown in drills as early as possible in spring, in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure, if it can be done, making a furrow four to six inches deep. In this sow the seed and cover two inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom or fade they should be cut off, for if the pods are allowed to form the plants will stop blooming.

CLASSIFIED VARIETIES AS TO COLOR.

If you want WHITE, select from numbers 356, 373, 387, 402. PINKS, 350, 371, 391, 420, 427. ORANGE and SALMON, 395, 406. SCARLET, 377, 386. MAROON, 360, 423. YELLOW, 400. STRIPED VARIETIES, 352, 411, 424. PINK or RED, with White Wings, 357, 358.

350. ALICE ECKFORD.—Standard, rich creamy, tinted pale pink. Wings pure white. **Oz. 5c. 1-4 lb. 15c.**

362. AMERICA.—Large, bold flower; white striped with blood-red. **Oz. 5c. 1-4 lb. 15c.**

351. APPLE BLOSSOM.—Bright rose and pink; beautiful.
Oz. 5c. 1-4 lb. 15c.

352. AURORA.—The color effect is gorgeous; both standard and wings are flaked and striped on a white ground with bright orange salmon. **Oz. 5c. 1-4 lb. 15c.**

363. BLACK KNIGHT.—Extra large well-expanded flowers of glossy maroon. **Oz. 5c. 1-4 lb. 15c.**

356. BLANCHE BURPEE.—Pure white; very large flower.
Oz. 5c. 1-4 lb. 15c.

357. BLANCHE FERRY.—Popular color standard, brightest pink; keel and wings white. **Oz. 5c. 1-4 lb. 15c.**

358. BLANCHE FERRY—Extra Early.—10 days earlier.
Oz. 5c. 1-4 lb. 15c.

359. BLUSHING BEAUTY.—Flowers of largest expanded form, perfect in shape, and of very good substance. Color a delicate, soft pink. **Oz. 5c. 1-4 lb. 15c.**

360. BOREATTON.—A very fine dark pea, with bold, stout flowers, color deep maroon. **Oz. 5c. 1-4 lb. 15c.**

361. BUTTERFLY.—New, and ranks among the very best of this unrivaled class of plants. Color lavender blue, shading into white on the lower petals. **Oz. 5c. 1-4 lb. 15c.**

364. CAPTAIN OF THE BLUES.—Large shell-formed flowers, purplish blue; wings deep blue. **Oz. 5c. 1-4 lb. 15c.**

365. COQUETTE.—Rosy cream standard; cream wings.
Oz. 5c. 1-4 lb. 15c.

366. COUNTESS OF RADNOR.—Delicate lavender, wings delicately striped with rose. **Oz. 5c. 1-4 lb. 15c.**

371. ELIZA ECKFORD.—Standard rose, wings delicately striped with rose. **Oz. 5c. 1-4 lb. 15c.**

372. EMILY ECKFORD.—Standard heliotrope, suffused with blue; wings deep blue. **Oz. 5c. 1-4 lb. 15c.**

373. EMILY HENDERSON.—Very early; color pure white; fragrance most delicious. The plants are robust, branchy, of compact habit; flowers large, broad and round, and its abundance of bloom is phenomenal. **Oz. 5c. 1-4 lb. 15c.**

374. FIREFLY.—Intense, glowing crimson.
Oz. 5c. 1-4 lb. 15c.

381. GAIETY.—Standards white, striped and flaked with rosy lilac; wings delicate blush. **Oz. 5c. 1-4 lb. 15c.**

367. GORGEOUS.—Flowers very large; coloring rich, glowing and effective. **Oz. 5c. 1-4 lb. 15c.**

380. GRAY FRIAR.—Large, shell-shaped flower, white clouded, and minutely dotted with reddish lilac. **Oz. 5c. 1-4 lb. 15c.**

382. HER MAJESTY.—Beautiful, soft, rosy pink.
Oz. 5c. 1-4 lb. 15c.

385. INDIGO KING.—A dark maroon standard, and clear indigo blue wings. **Oz. 5c. 1-4 lb. 15c.**

386. INVINCIBLE SCARLET.—Flowers of intense and brilliant scarlet pink, of the largest size. **Oz. 5c. 1-4 lb. 15c.**

391. KATHERINE TRACEY.—Soft, brilliant pink.
Oz. 5c. 1-4 lb. 15c.

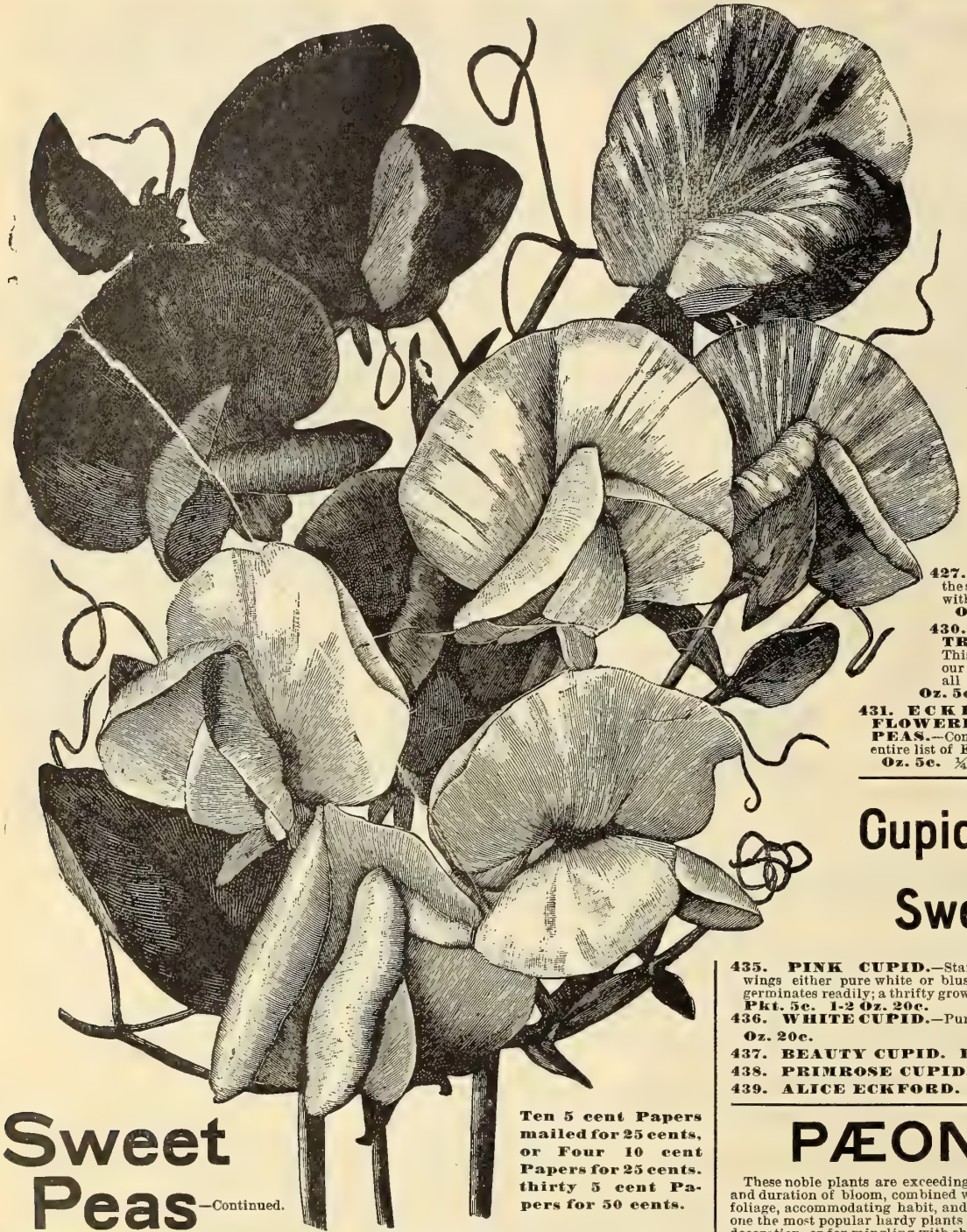
394. LADY BEACONSFIELD.—The standards are of light s[illegible] mon pink, wings pale primrose yellow. **Oz. 5c. 1-4 lb. 15c.**

395. LADY PENZANCE.—One of the most beautiful of Eckford's introductions. The standard is a beautiful laced [illegible] orange, while the wings are a darker and purer pink
Oz. 5c. 1-4 lb. 15c.

396. LOTTIE ECKFORD.—New, and a free bloomer [illegible] ender, shaded with pink and white. Very handso[illegible]
Oz. 5c. 1-4 lb. 15c.

398. LOVELY.—The most beautiful soft shell pink; grand flowers of large size. **Oz. 5c. 1-4 lb. 15c.**

399. MARS.—Bright, fiery crimson, deepening wit[illegible] round, expanded standard. **Oz. 5c. 1-4 lb. 15c**



416. QUEEN OF THE ISLES.—Scarlet mottled and flaked with purple and white. **Oz. 5c. 1-4 lb. 15c.**

419. RED RIDING HOOD.—Standard and wings are a rosy pink, shading to bluish white at the calyx. **Oz. 5c. 1-4 lb. 15c.**

420. ROYAL ROBE.—Standards a rich but delicate pink, wings a soft bluish pink. **Oz. 5c. 1-4 lb. 15c.**

422. SHAHZADA.—Flowers of large size and fine, expanded form; coloring rich dark maroon, with a tint of purple in the center of the standard and the inner portion of the wings. **Oz. 5c. 1-4 lb. 15c.**

423. STANLEY, or BLACK KNIGHT.—A deep maroon; a large and very handsome flower of the finest form and abundance. **Oz. 5c. 1-4 lb. 15c.**

424. THE SENATOR.—Large flowers, shaded chocolate and bright brown, and striped on a creamy-white ground-color; mottled and blotched in every conceivable manner. **Oz. 5c. 1-4 lb. 15c.**

427. VENUS.—Salmon buff; the standards delicately shaded with rosy pink. **Oz. 5c. 1-4 lb. 15c.**

430. G. & T. CO.'S EXTRA FINE MIXED.—This is a splendid mixture of our own, which includes nearly all the above varieties. **Oz. 5c. ¼-lb. 15c. Lb. 35c.**

431. ECKFORD'S LARGE FLOWERING MIXED SWEET PEAS.—Contains some of each of our entire list of Eckford's varieties. **Oz. 5c. ¼-lb. 15c. Lb. 35c.**

Sweet Peas—Continued.

Ten 5 cent Papers mailed for 25 cents, or Four 10 cent Papers for 25 cents. thirty 5 cent Papers for 50 cents.

397. LOTTIE HUTCHINS.—Daintily flaked with pink on cream ground making a rich and lovely effect. The flowers are of well-expanded grandiflora type, large in size and finely formed, borne on heavy, substantial stems. **Oz. 5c. 1-4 lb. 15c.**

400. MRS. ECKFORD.—Color a peculiarly delicate shaded primrose yellow. Decidedly pretty. **Oz. 5c. 1-4 lb. 15c.**

401. MRS. GLADSTONE.—On opening, the flowers are buff and soft pink, changing to a beautiful pale blush. Standard pink, deepening in color at the base, and wings flesh tinted. **Oz. 5c. 1-4 lb. 15c.**

402. MRS. SANKEY.—Black seeded. Large white flower, changing to blush. **Oz. 5c. 1-4 lb. 15c.**

406. ORANGE PRINCE.—Bright orange pink, flush scarlet; wings of rich rose, veined with pink. **Oz. 5c. 1-4 lb. 15c.**

408. PRIMA DONNA.—Lovely soft rose pink, of large size and fine form; a gem. **Oz. 5c. 1-4 lb. 15c.**

409. PRIMROSE.—Distinct as the nearest approach to yellow in Sweet Peas. Standard and wings of a pale primrose yellow color. **Oz. 5c. 1-4 lb. 15c.**

410. PRINCESS BEATRICE.—Flowers of a clear and beautiful carmine rose, slightly shaded. **Oz. 5c. 1-4 lb. 15c.**

411. PRINCESS OF WALES.—Color, white ground, shaded and tinged with mauve, **Oz. 5c. 1-4 lb. 15c.**

412. PRINCESS VICTORIA.—Standard, dark cherry; wings, mauve pink, and slight lines of rose. **Oz. 5c. 1-4 lb. 15c.**

Cupid Dwarf Sweet Peas

435. PINK CUPID.—Standard bright rose pink; wings either pure white or blush. The seed is black and germinates readily; a thrifty grower and continuous bloomer. **Pkt. 5c. 1-2 Oz. 20c.**

436. WHITE CUPID.—Pure white flowers. **Pkt. 5c. Oz. 20c.**

437. BEAUTY CUPID. Pkt. 5c. Oz. 20c.

438. PRIMROSE CUPID. Pkt. 5c. Oz. 20c.

439. ALICE ECKFORD. Pkt. 5c. Oz. 20c.

PÆONIES.

These noble plants are exceedingly effective; the profusion and duration of bloom, combined with the handsome massive foliage, accommodating habit, and easy culture, render them one the most popular hardy plants grown for lawn and garden decoration, or for mingling with shrubs for herbaceous plants in borders and wild gardens.

Double White, each 25c. Doz. $2.50.
Double Rose, each 25c. Doz. $2.50.
Double Crimson, each 25c. Doz. $2.50.

Postage extra, 5c. each, if wanted by mail.

Double Violets.

LADY HUME CAMPBELL.—Its excelling merit is its strong, healthy constitution. Light purple flowers.

SWANLY WHITE.—The best white double violet.

Good plants of either of the above varieties at $1.00 per dozen, 25 $1.50, or $5.00 per 100.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BULBS and ROOTS

FOR SPRING PLANTING.

CANNAS.

FEW flowering plants combine so many fine qualities as the modern Canna—a race of subtropical bulbous plants, of most easy culture, rapid reproduction, and good keeping qualities. The floral world has been astonished by their luxuriance of foliage and gracefulness of bloom, which is of immense size, borne in large masses and trusses, combining in color the brightest and richest shades of yellow, red, orange and scarlet, bringing them to the front as the finest ornamental plant in commerce. Useful for garden, green-house or sitting-room.

ALPHONSE BOUVIER.—This is probably the grandest and most effective Crimson Canna grown. Height, 6 feet.

AUSTRIA is a counterpart of Italia except in the color of its flowers, which are of a pure canary yellow, with but a few traces of small reddish-brown spots in the centre of the two inside petals.

BURBANK (New).—Very large flowering, rich yellow, with very substantial heavy light green foliage. Height about 4 feet.

FLORENCE VAUGHAN.—The finest yellow spotted variety yet sent out. The foliage is massive and of rich green color.

MADAME CROZY.—Flowers of dazzling crimson scarlet, bordered with golden yellow. A marvelous and rich combination of colors. The plant is of vigorous growth, yet very dwarf in habit, rarely exceeding four feet in height.

PAUL MARQUANT.—One of the most pleasing on account of its large size and entirely distinct color, a bright salmon scarlet, passing to a rosy carmine, with a peculiar silvery lustre, which lights up the salmon very brightly. 3 to 3½ feet in height.

QUEEN CHARLOTTE.—This new German sort is one of the handsomest scarlet varieties ever introduced, having a distinct golden belt around each petal.

PRICE.

Any of the above, from 3-inch pots, 10 cents each; $1.00 per dozen; $8.00 per 100.

If by mail, 5 cents extra on postage.

Dry or Dormant Roots, 5 cents each; 50 cents dozen.

DWARF MIXED VARIETIES.—Dry Roots. Each, 5 cents; dozen, 35c.

TALL MIXED VARIETIES—Red or green foliage. Each, 10 cents; 4 for 25 cents; 75 cents per dozen.

Canna Italia

ITALIA is of a bright orange scarlet with a very broad yellow golden border. The flowers, which are produced on massive stems, about sixteen inches long, are set well above the foliage, which is large and heavy, similar to that of the Musa Ensente.

☞ **If Cannas are wanted by mail, send 5c. additional for postage on each, or 15c. for a dozen.** ☜

Hardy Water Lilies.

NYMPHAEA ODORATA.—The well-known, fragrant pond lily. Its lovely pure white flowers, so common in some localities, are worthy of a place among the choicest varieties where cultivated.

15c. each. Four for 50c. $1.25 per doz.

NYMPHAEA ODORATA GIGANTEA.—This is a superb variety, and should be in every collection. Similar in all respects to Nymphaea Odorata, but the flower is very large and full.

15c. each. Four for 50c. $1.25 per dozen.

NYMPHAEA ODORATA MINOR.—A pretty little variety of our native pond lily, equally as hardy and fragrant, but the flowers and leaves are much smaller.

15c. each. Four for 50c. $1.25 per dozen.

PINK CAPE COD WATER LILY.—It possesses all the desirable qualities of N. Odorata. The flowers are of large size, cup-shaped; a lovely deep pink in color; delicious fragrance and free bloomer; a most desirable variety.

40c. each. $3.50 per dozen.

Iris Kaempferi.

JAPANESE IRIS.

These magnificent Japanese Iris are among the most beautiful of our summer flowering plants, and are destined to become great favorites. They commence flowering early in July, and continue in bloom for five or six weeks if plentifully supplied with water while growing and flowering. Many of these flowers measure from ten to twelve inches in diameter, and almost rival the orchids in their rich colorings and markings.

Each 15c. Four for 50c

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Begonias TUBEROUS ROOTED..

The Tuberous-Rooted Begonias are among the handsomest of our summer flowering bulbs. They are not grown to the extent they should be; they require no more care than Geraniums; have as fine a range of color, and will bloom continuously throughout the summer, even when Geraniums droop through lack of moisture and fail to unfold their flowers. Planted either in the rockery or flower border, they rival the Geraniums with their rich and varied colors, ranging from the most delicate shade of yellow and salmon to the most striking crimson and scarlet.

MIXED SINGLE, 10c. each. $1.00 per dozen.

MIXED DOUBLE, 25c. each. $2.50 per dozen.

Tuberoses

One of the most fragrant and popular of the summer flowering bulbs. May be started early in hot beds or pots, or planted in open ground after first day of May.

Each, 5c. Dozen, 25c. $1.00 per 100. By mail, 35c. dozen.

Madeira Vine Roots.

5c. each, 30c. dozen.

Gladiolus.

GLADIOLUS

IF WANTED BY MAIL, ADD 10c. PER DOZEN FOR POSTAGE.

The cultivation of the Gladiolus is very simple as they will thrive in any good garden soil, but will amply repay one for careful cultivation. A succession of bloom may be had from July to September by planting at intervals from April to June.

OUR GLADIOLUS are from one of the largest growers in the country, and one who has the finest assortment to be had either in this country or Europe; therefore we claim them to be unexcelled as to quality.

MIXED (All Colors.)—Dozen, 25c. $1.25 per hundred.

WHITE AND LIGHT COLORS.—Dozen, 30c. $1.75 per hundred.

EXTRA WHITE AND LIGHT VARIETIES.—All first-class varieties, made up largely from best-named sorts, including ten per cent. of Snow White.
10c. each. 50c. per dozen. $3.50 per hundred.

CHILDSI MIXED.—Extra large and fine. **50c. dozen. $3.25 per hundred.**

BEDDING PLANTS.

COLEUS.—Good Varieties. 10c. each. 6 for 50c. 75c. per dozen.
GERANIUMS.—10 Named Varieties. 15c. each. 5 for 50c. $1.00 per dozen.
HELIOTROPE.—Good Varieties. 10c. each. 6 for 50c. 85c. per dozen.
PANSIES.—Good Varieties. 10c. each. 6 for 50c. 75c. per dozen.
SALVIAS.—"Scarlet Sage." 10c. each. 6 for 50c. 85c. per dozen.
VERBENAS.—10 Named Varieties. 10c. each. 6 for 50c. 80c. per dozen.
HARDY PHLOXES.—10 Named Varieties. 15c. each. 6 for 50c. 10 for 85c.

CARNATIONS. STANDARD SORTS.

LIZZIE McGOWAN.—One of the best white varieties.

NEW YORK.—Bright, cerise pink, a fine flower.

PORTIA.—Brilliant scarlet. Still the leading scarlet.

SCOTT.—Flowers large and non-bursting, of a deep pink; stems long, of good strength. Everybody's Pink.

15c. each. 5 for 50c. $1.00 per doz. 25 for $1.50.

CALADIUMS ELEPHANT'S EAR.

The Caladium Esculentum is one of the handsomest of the ornamental leaved plants. It will grow in any good garden soil, and is of the easiest culture. To gain the best result it should be planted where it will obtain plenty of water, and an abundance of rich compost. Roots planted in the spring will make good growth in the summer, and in the fall they should be taken up and stored in a cellar. Leaves three feet or more in length and nearly as broad, There is nothing so good as this Caladium for a grand bed of foliage in the garden.

FIRST SIZE BULBS.—5c. each. By mail, 10c. 50c. per dozen.

EXTRA LARGE BULBS.—10c. each. By mail, 15c. $1.00 per doz.

Caladium Esculentum.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Dahlias--Pot Grown.

(CACTUS DAHLIA.)

GRAND DUKE ALEXIS.—Large, massive flowers, ivory white, with a faint tinge of rose at the extremities of the petals.
15c. each. 5 for 50c.

TWELVE SELECT CACTUS DAHLIAS for $1.00.

BRONZE.—Buff yellow, overlaid bronze.
CLIFFORD W. BRUTON.—The best yellow Cactus Dahlia; a clear rich yellow.
LYNDHURST.—Deep glowing scarlet; large and full.
FIRE BALL.—Clear yellow, tipped reddish pink.
MISS JENNINGS.—Combination of yellow, salmon and pink.
NYMPHAE.—A beautiful delicate pink, shading to blush at center
ORIENTAL.—Rich pale salmon.
ORANGE KING.—Yellow orange.
RED AND BLACK.—Deep wine, red margin black.
SUNLIGHT.—Soft pale lemon. Very fine.
UNIQUE.—Pure yellow, tipped with red and blue.
WILLIAM AGNEW.—The grandest red Cactus Dahlia ever produced; color, a rich shade of red.
15c. each. Five for 50c. $1.00 per dozen.

LARGE FLOWERING.

APPLE BLOSSOMS.—Combines all the shades found in apple blossoms.
ARABELLA.—Primrose tip and shaded lavender.
DANDY.—Pure pink, striped jet black.
FORGET-ME-NOT.—Variegated.
KING OF YELLOW.—Pure, clear yellow.
LA PHARE.—Brilliant scarlet.
A. D. LIVONIA.—Beautiful soft pink, with quilled petals
MADAME ZELLER.—Yellow tip, shaded red.
MRS. DEXTER.—Salmon.
PRINCE BISMARCK.—Rich purple.
PENELOPE.—Pure white, flaked lavender.
PERILE.—Clear white.
RUBY QUEEN.—Clear ruby red.
15c. each. Five for 50c. $1.00 per dozen.

TWENTY-FIVE SELECT DAHLIAS for $1.50.

DAHLIA ROOTS.

Choice named sorts, **10c.** each, **$1.00** per dozen.

POMPONE DAHLIAS.

AILLET'S IMPERIAL.—Suffused pink, tipped purple.
CRIMSON. A beauty. Rich crimson.
ELFIN.—Pale primrose, changing to cream white.
ELEGANTA.—Soft pink, tipped deep pink.
FAIRY QUEEN.—Light sulphur yellow, edged with deep pink. One of the most beautiful and profuse bloomers Fine for cutting.
GOLDFINCH.—Clear yellow, tipped with scarlet.
LELIA.—Flesh mottled, deep crimson
LITTLE BESSIE.—Quilled cream white.
LITTLE PRINCE.—Red tipped, mottled deep crimson.
LITTLE DIAVOLA.—Light pink tipped with dark maroon.
LITTLE HELEN.—Pure white
LITTLE PET.—Soft pink, shaded with crimson.
LITTLE MASTER.—Deep maroon.
SNOW-CLAD.—Unquestionably the finest white.
VIVID.—Intense scarlet.
15c each. 5 for 50c. $1.00 per doz

LILIES.

LILIUM AURATUM.

AURATUM (The Gold-Banded Lily of Japan—Immense white flowers, each petal marked with a wide gold band and spotted with maroon; very sweet fragrance and free blooming. It is considered by many the finest lily in cultivation. **Large Bulbs, 15c. each. $1.00 per dozen. Extra large bulbs, 15c. each $1.25 dozen. Mailed free.**

LILIUM SPECIOSUM RUBRUM.—White with rose center. **Each, 15c. $1.00 per dozen.**

LILIUM SPECIOSUM ALBUM.—Pure white. **Each, 15c. $1.25 per dozen. Mailed free.**

WHITE CALLA—(Ready in July).—The white Calla or Lily of the Nile is a well-known plant of easy culture, and in winter is one of our best winter plants. To aid profuse blooming, keep them dormant from the middle of June to last of August, re-pot them in good rich soil, using a four to six-inch pot. Give water, light and heat in abundance, and the result will be most satisfactory.

Large bulbs, 10c. each. By mail, 15c.
Extra large bulbs, 15c. By mail, 25c.

CALLA LILY.

FLOWER TUBS

NO. 1 PLAIN.

COLUMBIA PLANT TUBS.

Made of Cypress. Never decay or fall apart. Natural varnish finish on the wood, or if wanted, can finish them in oil paint, but to order only.

12 in.	diameter	by 11	in.	high	each $1.00
15	"	" 14	"	"	" 1.50
18	"	" 16½	"	"	" 2.00
21	"	" 18½	"	"	" 2.50
24	"	" 20½	"	"	" 3.00

U. S. FLOWER TUBS.

Cypress, Painted Green; Iron Feet and Iron Bound.

No.	each.
1—13x11	$ .75
2—14½x13	1.25
3—16x15	1.75
4—20x18	2.25
5—24x21	2.75

Fifteen cents each. Four for 50 cents. $1.25 per dozen.

AGRIPPINA.—Crimson. Second only to "Hermosa" in hardiness and profusion of bloom. Color, rich shade of crimson.

LOUIS PHILIPPE.—A rich, dark, velvety crimson, free and beautiful.

AUGUSTA VICTORIA.—One of the most desirable Roses of recent introduction. The flowers are produced in the greatest profusion, are of large size, of a creamy white color, shading deeply towards the center. It is a strong, healthy grower, with fine foliage, and will undoubtedly become popular both as a bedding variety and for forcing under glass.

AMERICAN BEAUTY.—Beautiful crimson; very double and fragrant.

LA FRANCE.—Splendid satiny Rose; very large, full, fine form; a constant bloomer.

MADAME CAMILLE.—Pale flesh, changing to salmon Rose, shaded with carmine.

METEOR.—A rich, dark, velvety crimson, Hybrid Tea; a free bloomer and vigorous grower.

MARIE GUILLOT.—Pure white; a fine bedding Rose.

MARECHAL NEIL.—Large golden yellow.

NIPHETOS.—The White Rose par excellence, large pointed buds; very free flowering. Particularly valuable for winter forcing and summer blooming.

PAPA GONTIER.—This is one of the most fashionable of our winter flowering Roses, but is equally useful for summer bedding. Color, a glowing carmine crimson.

PERLE DES JARDINS.—No Rose of its color is more valuable than this. Its color is a rich shade of yellow; large size and perfect form. Tea fragrance; a healthy, free grower, and unequalled in profusion of bloom.

SAFRANO.—Saffron yellow, beautiful in the buds; a well-known favorite.

GEN. JACQUEMINOT.—Well-known and popular.

CORNELIA COOK.—Perhaps the finest white Rose; flowers very large.

GOLDEN GATE.—Creamy white, tinted yellow; pedals edged with rose.

HERMOSA.—Pink. A grand bedding Rose, prolific in blooming, and almost entirely hardy, having lived for years in the New York cemeteries.

MAMAN COCHET.

MAMAN COCHET.—An extra strong grower, producing its large buds and flowers in the greatest profusion; color deep rose pink; borne on long stiff stems; very double and exquisite when in bud.

WHITE MAMAN COCHET.—Identical with Pink Cochet except in color; an ideal bedding variety.

BRIDESMAID.—This beautiful new rose is a sport from Catherine Mermet, possessing all the good qualities of that popular variety, but surpassing it in color, being of a darker, richer color, a deep, rich pink. A most desirable acquisition, and invaluable for winter forcing.

HARDY MEMORIAL ROSE.

(Rosa Wichuriana.)

FOR USE IN CEMETERIES.

It is difficult to conceive anything more appropriate, beautiful and enduring for covering graves and plots in cemeteries than the Hardy Memorial Rose. It creeps along the ground almost closely as Ivy, growing ten feet in one season, and forming a dense mat of very dark, green lustrous foliage.

CULTURE.

Roses of the Tea and monthly class are not altogether hardy north of Virginia, yet with careful banking of the earth high around the plant most kinds do well. The Hybrids, Mosses and Clusters are most hardy, still some protection is very beneficial to these if it only be a covering of loose straw or leaves. Coarse stable manure is the best mulch for winter and summer. We would recommend that north of Virginia selections should be made from the Hybrid Perpetual class, and especially where complete hardiness and large plants are desired. Spring is the best time for planting Roses. The soil should be rich and well drained, with careful culture, to insure success. Annual pruning is very beneficial.

BRIDE.—The Bride is pure white of large size and most perfect form. This variety has a most delicious fragrance, and is a strong growing, free blooming rose, either for summer or winter flowering.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CRIMSON RAMBLER.

Hardy Climbing ROSES.

HARDY CLIMBING ROSES { 15 cents each. 4 for 50 cents. $1.25 per dozen.

CRIMSON RAMBLER.—This Rose has already made an impression as one of the grandest garden varieties introduced for years. It is of Japanese origin, and quite hardy, with strong shoots, that climb high in a season, or may be cut back into handsome bush form. The foliage is noticeably distinct and handsome, light glossy green, thick and leathery. The flowers are produced in great pyramidal panicles of brilliant crimson. As a decorative pot plant it is also strikingly effective.

YELLOW RAMBLER.—The hardiest yellow climbing Rose yet introduced. A worthy companion to the Crimson Rambler, White Rambler and Pink Rambler.

BALTIMORE BELLE.—Pale blush, shading to rose color; very double flowers in large clusters.

GREVILLEA, or SEVEN SISTERS.—Flowers in clusters, opening a light rose color, changing to pure white.

PRAIRIE QUEEN.—Bright carmine pink; full globular flowers of fine size. A fine rose for all sections.

TENNESSEE BELLE.—Blush of good size, flowers in clusters

RUSSELL'S COTTAGE.

CHRYSANTHEMUMS.

LARGE SHOW VARIETIES

PRICE, 15c. each; 5 for 50c.; $1.00 per dozen; $5.00 per 100; one each of the 27 varieties for $1.75.

AUTUMN GLORY.—Deep reddish-salmon when first opening, gradually changing to a soft shrimp pink.

BELLE OF CASTLEWOOD,—A pleasing shade of shell pink.

COL. WM. B. SMITH.—A grand, deep yellow, of finest form and size.

CALLINGFORDI.—A fine shade of crimson.

EUGENE DAILLEDOUZE.—Bright, clear, yellow; extra.

GEORGE W. CHILDS.—The best deep self-colored crimson variety in existence; flowers massive and of immense size, with broad, stiff petals, rich dark velvety crimson.

GLORY OF THE PACIFIC.—A magnificent extra early pink.

GOLDEN WEDDING.—The grandest golden yellow ever introduced.

IVORY.—Snowy white; perfect form and early.

J. H. WOODFORD.—Shell or Mermaid Pink, strong stem, fine foliage.

LIBERTY.—Of beautiful form; color a clear rich yellow.

MAJOR BONNAFFON. One of the best yellow.

MRS. F. BERGMAN.—One of the earliest and best whites.

MRS. J. T. WHILDIN.—A handsome light yellow.

MAUD DEAN.—An extra large flowered variety; color pink, almost rose

MINERVA.—Large, vivid golden yellow.

MINNIE WANAMAKER.—Creamy white, of very large size, and so much incurved as to resemble a white ball.

MRS. S. T. MURDOCK.—Large deep pink, one of the latest.

MRS. JOHN GLESSNER. Large, light yellow, incurved, late.

MRS. PERRIN. Rose pink, globular, incurved

MRS. O. P. BASSETT.—Japanese incurved, clear light yellow.

MRS. H. WEEKS.—Japanese incurved, snow white.

MODESTO.—One of the largest and prettiest yellow varieties.

NIVEUS.—A grand snow white variety.

THE QUEEN.—Excels all in pure whiteness.

V. H. HALLOCK. Rosy pearl of a waxy texture.

WM. H. LINCOLN.—A magnificent golden yellow variety.

HARDY POMPON VARIETIES

We have a fine assortment of [illegible] and offer a collection of 25 [illegible] sorts at $3.00 per 100, or one each of the 25 for $1.50. $1.00 per do[illegible]

NURSERY DEPARTMENT.

..Fruit..

SUMMER APPLES.

YELLOW TRANSPARENT.—Ripens among the earliest. July.
50 cents each. **$4.80** per dozen. **$18.00** per 100.
EARLY HARVEST.—June and July.
50 cents each. **$4.80** per dozen. **$18.00** per 100.

AUTUMN APPLES.

GRAVENSTEIN.—August.
50 cents each. **$4.80** per dozen. **$18.00** per 100.
OLDENBURG (Duchess of Oldenburg).—August.
50 cents each. **$4.80** per dozen. **$18.00** per 100.

WINTER APPLES.

LANKFORD'S SEEDLING.—A popular sort for late winter use.
50 cents each. **$4.80** per dozen. **$18.00** per 100.
YORK IMPERIAL, or JOHNSON'S FINE WINTER.
50 cents each. **$4.80** per dozen. **$18.00** per 100.

ADDITIONAL VARIETIES.

("S" means Summer. "A" Autumn. "W" Winter.)
Red Astrachan, S. Carolina Red June, S. Tetofsky, S. Fall Pippin, A. Smokehouse, A. Ben Davis, W. Bentley's Sweet, W. Berry Red, W. Fallwater, A. Winesap, W. Nansemond Beauty, W. Rome Beauty, W.
25 cents each. **$2.50** per dozen. **$15.00** per 100.
CRAB APPLES.—50 cents each. **$5.00** per dozen.

PEARS.

KOONCE.—Medium to large, very handsome; surface yellow, one side covered with a bright carmine, containing brown dots; quality very good, spicy, juicy and sweet. The Koonce is a vigorous grower, free from blight, productive, and an annual bearer.
50 cents each. Three for **$1.25.**
VERMONT BEAUTY.—In color it is a rich yellow, with a beautiful bright carmine cheek. The fruit is of medium size, and the flesh is of the finest quality, being rich, juicy and aromatic.
50 cents each. Three for **$1.25.**
GARBER.—September and October.
40 cents each. **$4.00** per dozen. **$25.00** per 100.
KEIFFER.—The old, well-known, reliable and paying variety.
40 cents each. **$4.00** per dozen. **$30.00** per 100.
FLEMISH BEAUTY, BARTLETT, SECKEL.
30 cents each. **$3.00** per dozen. **$25.00** per 100.

DWARF PEARS.

Prices on Dwarf Pears, two and three years, first-class:
25 cents each. **$2.50** per dozen. **$15.00** per 100.
The following varieties are the only ones that succeed well as Dwarfs:
Angouleme, Anjou, Lawrence, Seckel, Manning's Elizabeth.

PEACHES.

CROSBEY (Excelsior, Frost-Proof).—Ripens between Early and Late Crawford. 20 cents each. **$2.00** per dozen. **$12.00** per 100.
CHAMPION.—July. 20 cts. each. **$2.00** per doz. **$12.00** per 100.
Alexander, Louise, Yellow St. John, Mountain Rose, Early Silver, Crawford Early, Wheatland, Crawford Late, Chairs Choice, Family Favorite, Chinese Cling, Old Mixon, Reeves Favorite, Christiana, Smock Free, Globe, Ringgold Cling.
18 cents each. **$1.75** per dozen. **$12.00** per 100.

JAPANESE OR ORNAMENTAL PLUMS.

HALE.—Most vigorous tree of all the Japans. Fruit large; bright orange, mottled with cherry red. Superb in quality. Ripens middle of September. Price, **$1.00.** Three for **$2.50.**
WILLARD.—Earliest of all Japan Plums, and hence very valuable for market. **50** cents each. Three for **$1.25.**
WICKSON.—Pit small; flesh tender, sweet and delicious. Season just following the Burbank Plum. **50** cents each. Three for **$1.25.**
☞ **Will sell one of each of above or the three in one order for $1.50.**
BOTAN, or ABUNDANCE.—First of August.
BURBANK.—September 1st.
The two above-named varieties **60** cents each. Three for **$1.50.** Six for **$2.75.** **$4.50** per dozen.
ADDITIONAL FRENCH AND AMERICAN VARIETIES, INCLUDING SHROPSHIRE DAMSON.—**35** cents each. **$3.50** per dozen.

CHERRIES.

HEART.—Black Tartarian, Gov. Wood, Napoleon Bigarreau, Florence, Early Purple.
DUKE AND MORELLO.—Dye House, Belle Magnifique, Early Richmond, Montmorency.
Price, **50** cents each. **$5.00** per dozen.

APRICOTS.

APRICOTS.—(Russian Varieties).—Nectarines.
Price, **25** cents each. **$2.50** per dozen.

NUT-BEARING TREES.

Spanish Chestnut, English Walnut, Paper Shell Pecan, Filberts, Shell Barks, Hard and Soft Shell Almonds.
Price, **40** and **50** cents each, according to variety.
JAPAN CHESTNUT.—$1.00 each. **$10.00** per dozen.

GRAPES.

The following list contains the best-known sorts of hardy American varieties:
Ohio, Black.—One of the very best sorts. **25** cents each. **$2.50** per dozen. Two years old.
Brighton, Red—Concord, Black—Delaware, Red—Martha, White—Worden, Black. Two years old. **25** cents each. Twelve for **$2.50.**
Moore's Early, Black—Niagara, White—Pocklington, White—Vergennes, Red. **30** cents each. **$3.00** per dozen.
Campbell's Early.—**50** cents each. **$5.00** per dozen.

SELECT QUINCES.

CHAMPION.—Three to four feet, **35** cents each. **$3.00** per doz.
CHAMPION.—Two to three feet, **30** cents each. **$2.50** per doz.
MEECH PROLIFIC.—Three to four feet, **35** cents each. **$3.00** per doz.
MEECH PROLIFIC.—Two to three feet, **30** cents each. **$2.50** per doz.

ORNAMENTALS.

DECIDUOUS TREES.

Can furnish any of the Deciduous Trees at **50** cents to **75** cents each, and larger quantities in proportion.

EVERGREENS.

SPRUCE.—Two to two and a-half feet, **50** cents each. **$5.00** per doz.
FIRS.—Two to two and a-half feet, **75** cents each. **$7.50** per doz. Other varieties in proportion.
MAGNOLIA, GRAND.—Two to three feet, **$1.25** each.

SHRUBBERY.

JAPAN MAPLES.—Mostly dwarf habit; several kinds weeping and cut-leaved, with brightly-colored foliage, red, purple, etc. These are indeed remarkable for beauty, and wherever planted give perfect satisfaction. **$1.50** each.
DEUTZIA GRACILIS.—75 cents each.
DEUTZIA CRENATA.—75 cents each.
LILAC (White and Blue).—75 cents each.
SPIREA, RIEVESII.—75 cents each.
SPIREA, BUMALDO.—75 cents each.
SPIREA, CALOSA ALBA.—75 cents each.
HYDRANGEA, PANICULATA GRAND.—75 cents each.
CRAPE MYRTLE.—$1.00 each.

VINES.

AKEBIA QUINATA.—50 cents each.
AMPELOPSIS VEITCHII.—50 cents each.
ENGLISH IVY.—50 cents each.
WISTARIA PURPURIA.—50 cents each.
WISTARIA ALBA.—50 cents each.
CLEMATIS (Large Flowering).—50 cents each.
CLEMATIS (Small Flowering).—50 cents each.

HEDGE PLANTS.

CALIFORNIA PRIVET.—One year, **$4.00** per 100. **$30.00** per 1000.
CALIFORNIA PRIVET.—Two years, **$4.50** per 100. **$35.00** per 1000.
OSAGE ORANGE.—One year, **75** cents per 100. **$7.50** per 1000.
OSAGE ORANGE.—Two years, **$1.25** per 100. **$10.00** per 1000.
AMERICAN ARBORVITAE.—Twelve to eighteen inches, **$12.50** per 100. Two to three feet, **$22.50.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore. Established 1860.

Strawberry Plants.

GLEN MARY NEW.—A very large variety; larger than Sharpless or any other berry. In quality it is equal to the best, and surpasses even the Crescent for productiveness in quarts of berries. At its home, in Chester County, Pa., it begins to ripen about May 28. Everyone should try this excellent variety.

PARKER EARLE.—This is a large sort, of wonderful productiveness. Late.

MICHEL'S EARLY.—Very early.

TIMBRELL (P.)—Very large, bright red color.

BRANDYWINE.—Very late, strong grower; productive.

An Excellent Family Collection.—

MICHEL'S EARLY, GLEN MARY, LADY FINGER, SHARPLESS.

75c. per 100, or 100 of each for $2.00.

Varieties marked "P" should have another perfect flowering sort near them.

We offer a nice stock of Strawberry Plants of all the leading varieties, and at low prices, considering the quality of the stock. We can supply them at short notice, freshly dug and shipped direct from the nursery.

JESSIE.—Mid-season; good size and productive.

RIO.—A recent berry that is very highly recommended. Rich, glossy color, medium size, and very prolific.

NICK OHMER.—Mid-season. This is probably not surpassed in healthy, vigorous growth and great productiveness. Fruit large, glossy red, of excellent flavor.

MARSHALL.—Medium to late in season.

BEDERWOOD.—Early and of medium size.

DAYTON.—Early, unexcelled.

GREENVILLE (P.)—Mid-season.

H. W. BEECHER (P.)—Mid-season.

CLYDE.—Among new varieties, possessing points of excellence, Clyde stands first on the list. Fruit large, firm and of light scarlet color.

NEW LADY FINGER.—A very long berry of beautiful appearance and very valuable because of its habit of holding good size to the end of the season. In season from medium to very late.

WM. BELT.—The fruit is exceptionally large, of brilliant red color, and of extra fine quality. It is a good shipper.

MEEK'S EARLY.—Very early.

TENN. PROLIFIC.—Large, sweet, firm.

BUBACH (P.)—Medium to late.
GANDY.—Late. Fine for canning.
LADY THOMPSON.—Medium to late.
SHARPLESS.—Old reliable.

PRICE: Any of the above Varieties, Strong, Healthy Layers, 25 Cts. per Doz; 75 Cts. per 100; $4.00 per 1,000.

☞POT GROWN PLANTS will be ready for delivery after August 1st. Prices for pot-grown plants are from $3.00 to $4.00 per hundred, according to variety.

Raspberries.

KANSAS (Black Cap).

KANSAS (Black Cap).—It possesses all the valuable attributes of a profitable market sort, and its large size and handsome appearance ensures for it always a ready sale and good prices. The fruit is handsome firm and of fine quality. Its canes are of strong growth, entirely hardy and prolific with tough, healthy, clean foliage. Its season is about second early—later than Souhegan, but earlier than Gregg. By reason of its greater hardiness it is a great improvement upon the Gregg.

75 cts. dozen, **$3.50** per 100.

GOLDEN QUEEN, CUTHBERT.
GREGG, OHIO AND SOUHEGAN.
50 cts. dozen, **$3.00** per 100.

Blackberries.

WILSON, Jr.—Very early.

EARLY HARVEST.

ERIE.—Early.

LUCRETIA (Dewberry).—As early as Early Harvest and as large as Wilson. Plant is entirely hardy, healthy, strong grower and very productive.

Any of the above **50** cts. dozen, **$3.50** per 100, by express.

Gooseberries.

DOWNING.
Two-year-old, **75** cts. per half-dozen, **$1.50** per dozen, **$5.00** per 100, by express.

HOUGHTON'S SEEDLING.
Price, **50** cts. per half-dozen, **$1.00** per dozen, **$5.00** per 100, by express.

Japan Wineberries.

This fruit is but little known, but should be in every garden. It is wonderfully productive. At this date, June 20, our beds are one solid mass, about three feet high, and covered all over the top with fruit as thick as clover in blossom.

Price, **$2.00** per dozen, by express.

Currants.

CHERRY.

Price, **60** cts. per half-dozen, **$1.00** per doz., **$6.00** per 100, by express.

FAY'S PROLIFIC.—The best red currant. Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red, and good quality.

Price, **75** cts. per half-dozen, **$1.25** per doz., by express.

WHITE GRAPE.

Price, **60** cts. per half-dozen, **$1.00** per doz., **$5.00** per 100, by express.

Juneberry.

IMPROVED DWARF.

The fruit is borne in clusters, reddish purple in color, changing to bluish black. In flavor it is mild, rich sub-acid; excellent as a dessert fruit or canned. It is extremely hardy. In habit it is similar to the currant, the bushes attaining the same size. The blossoms are quite large, and composed of fine white petals, which, with its bright, glossy, dark green foliage, renders it one of the handsomest of ornamental shrubs.

Price, **15** cts. each, **$1.50** per dozen.

ORANGE (Hardy).

JAPAN HARDY ORANGE (Citrus Trifoliata).—A new hardy Orange. Has of late created quite a sensation North f[rom] the fact that it is perfectly hardy; it blooms and fruits profusely in the parks of Phil[a]delphia and New York. To have a f[ine] Orange tree in your garden is [a] something to be proud of; its large [white] sweet-scented flowers are produ[ced] greatest abundance before the [leaves] Well adapted for hedges, making [a] compact growth that nothing ca[n] Such a hedge when in bloom and [is] tainly one of the greatest s[ights] Fruit small, bright [orange] a peculiar flavor. [Fine] for [pre]

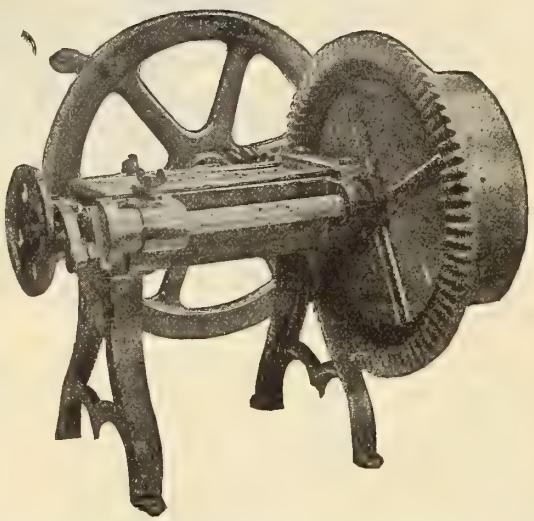
Price.—By freight or [express] 25 cts. each, $2.50 per [dozen] $15.00 [per] 100.

SPECIAL PRICES TO GARDENERS AND FARMERS IN LARGE QUANTITIES.

BONE CUTTERS, MILLS, ETC.

DANDY GREEN BONE CUTTERS.

This is one of the simplest and best cutters made. Has automatic feed. The knives are made from the best Tool Steel, and finely tempered. There are one plain and two corrugated knives. Can be changed to cut coarse or fine.

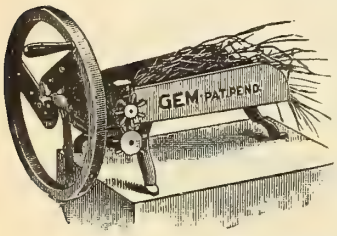


No. 1 ..... $10.00
No. 2, same as No. 1, except it has a split nut in the feed wheel, which facilitates the working of the feed screw..... 12.00
No. 3, for hand and power..... 18.00

OUR No. O DANDY.

This is a splendid machine for the money. The knives are made of the best tool steel and finely tempered.
Price, with Balance Wheel..... $7 00
Price, without Balance Wheel..... 5.00

GEARED DANDY CUTTERS.

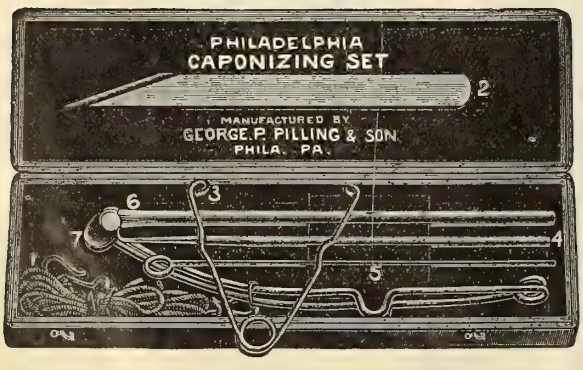


The Geared Machines will cut faster, and having four knives will cut just as fine as the others.
No. 11 Geared $13.00
No. 12 " with split nut, 15.00
No. 13 " for power..... 20.00
Pulley for belt..... 2.00

The Gem Clover Cutter

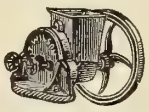
Best in the world. All iron and steel. Cuts green or dry fine, even and easy.
Price. $9.00
Price, with legs..... 10.00

CAPONIZING TOOLS.

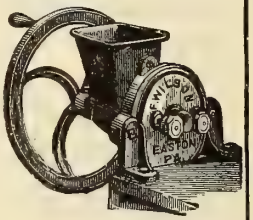


Every poultry man knows that Capons are much larger fowls, sweeter and finer meat, and sell at a much higher price than others. You can do your own caponizing easily.
Book with full instructions sent free with each set of instruments.
Price, in Leather Case, with instructions..... $2.50

Wilson's Bone and Shell Mill.



No. 1.—Grinds oyster or clam shells and dried bones, and is an excellent mill and largely used. Will also grind corn.
Price $4.00

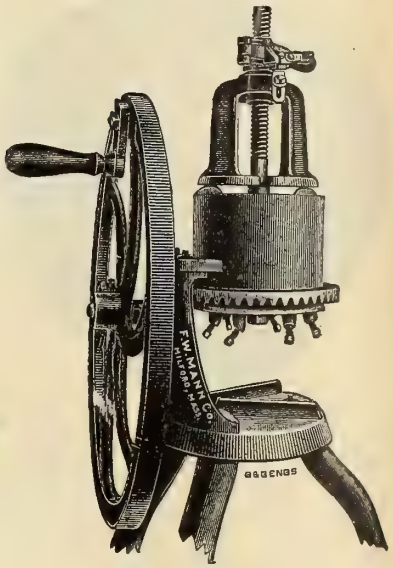


No. O, for Grain only.
An excellent mill for grinding grain of all kinds.
Price.....$4.00

Wilson's Crown Green Bone Mill.

This machine is especially made for cutting Green Bone with meat on, right from the butcher, or offals of bone and meat from the table.
Turns easy, fine and fast.
With Stand.....$9.00
Without Stand... 7.00

MANN'S BONE CUTTERS.



No. 1, B, with balance wheel.....$ 8.00
No. 4, B, " " " 12.00
No. 1, BM, " " " Mounted on stand..... 10.40
No. 4, BM, with balance wheel, Mounted on stand..... 15.00
No. 6, Post Bone Cutter. 16 00
No. 2, Standard Bone Cutter 18.40
No. 10, Small Power Cutter..... 26.00

MANN'S GRANITE GRIT.

Per 100 lbs.... .....$1.00
Per 200 lbs..... 1.75
Per 500 lbs..... 3.75

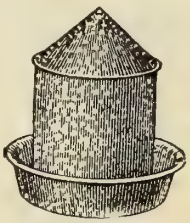
MANN'S CLOVER CUTTER.

Made entirely of Iron and Steel.
Price, with balance wheel.....$ 8.00
Mounted on Iron Stand..... 10.00

THE WEBSTER CLOVER CUTTER.

This is just the thing for small poultry yards. Does nice work.
Price..... $3.50

GALVANIZED DRINKING FOUNTAINS.



No. 1, 2 qts.....30 cts., $3.25 doz.
No. 2, 4 qts..... .....50 cts., 5.00 doz.
No. 3, 8 qts..... .....75 cts., 7.00 doz.

BALTIMORE FOUNTAINS.

EARTHENWARE.

1 quart.....25 cts., $2.50 doz.
2 quarts.....35 cts., 3.50 doz.
4 quarts.....50 cts., 4.50 doz.

THE SAFETY EGG CARRIER.

The only perfect Carrier for the transportation of Eggs. Trays are easily removed and can be turned bottom up without spilling an egg. The eggs can be taken from the cases in a moment's time by simply removing the trays, showing just what the contents may be, making it easier for the seller and better for the buyer. Every egg is wholly visible.

30 dozen Carrier, Trays and Case combined.....$2 50
16 " " " " " " 2 00
12 " " " " " " 1 75
6 " " " " " " 1.25

GAPE EXTRACTOR.

PRICE 25 CENTS EACH.

POULTRY SUPPLIES.

CLIMAX CONDITION POWDERS FOR STOCK AND POULTRY

The only positive preventive and cure for Gapes and Poultry Cholera, and a most excellent medicine for young Turkeys that have been exposed to the weather; also an excellent medicine for Horses, Cattle, Sheep and Hogs. All who have used Haven's Climax Condition powders once will have it again.

13-oz. packages, **25**c.; by mail, **40**c. 32-oz. packages, **50**c.; 5-lb. box, **$1.00.**

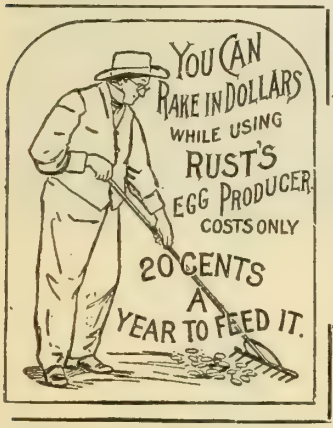
HAVEN'S ROUP PILLS.

For the cure of Roup, Catarrh, Colds, etc. Box..... **25**c.

SHERIDAN'S CONDITION POWDER.

Strictly a medicine, to be given in the food, once daily, in small doses. Prevents and cures all diseases of hens. Worth its weight in gold when hens are moulting.

Price, small packages, **25**c., 5 for **$1.00**; large packages, **$1.00**, by mail, **$1.25**; 6 large packages, by express, **$3.50.**



RUST'S EGG PRODUCER.

This has given our customers universal satisfaction. It supplies those substances which produce Egg growth and development. So moderate in price, it should be used winter and summer,

1-lb. package..... **25**c.
2½-lb package..... **50**c.
6-lb. box..... **$1.00**

If to be sent by mail, add 16 cents per lb. to prepay postage.

Pratt's Food will make hens lay all the year, and is excellent for feeding young chicks. For large fowls m x one ounce with the food for 15 or 20. For 15 or 20 chicks give one-half ounce every other day. 1½-lb. pkg., **25**c.; 5-lb pkg., **60**c.; 12-lb. bulk, **$1.25**; 25-lb. bulk, **$2.50.**

Pratt's Food for Horses. 7 lbs., **50**c.; 12½ lbs., **75**c.

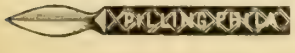
Pratt's Animal Regulator. **25**c. pkg

SCRATCH FOOD.

This is a mixture of grains, etc., designed to make chickens scratch, which exercise is highly beneficial.

8 lbs., **25**c.; 25 lbs., **50**c.; 100 lbs., **$1.50.**

FRENCH POULTRY KILLING KNIFE.



The most expeditious and humane way of killing and dressing poultry is by the French method. These knives are made of the finest steel.

Price, with instructions..... **50**c. each.

POULTRY NETTING, For Enclosing Poultry Yards.

The Wire we offer is all No. 19 and 20 double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

PRICES TWO-INCH MESH.

	In. Wide.	Sq. ft.	Per bale.		In. Wide.	Sq. ft.	Per bale
No. 19.	12	150	**$ .75**	No. 19.	48	600	**3.00**
No. 19.	18	225	**1.12**	No. 19.	60	750	**3.75**
No. 19.	24	300	**1.50**	No. 19.	72	900	**4.50**
No. 19.	36	450	**2.25**	For prices on No. 20 Wire see page 112.			

Price, **1** cent. per square foot tn less than bale lots.

Staples for fastening, **10** cents per pound.

CLIMAX LEG BANDS.

Made of spring brass and so made that the tag acts as a clasp, holding them securely in place. Price, per dozen, **20**c.; per 50, **60**c.; per 100, **$1.00.**

WIRE HEN'S NESTS.

25c. each; **$2.50** per dozen.

PORCELAIN NEST EGGS.

The best and cleanest nest egg used. Each, **5**c.; dozen, **25**c.; by mail, **50**c.

POULTRY MARKER.

This little instrument is used for marking young and old chickens. It is invaluable to breeders and farmers. They are made in two sizes for large or small chicks; nickel-plated, have steel cutter and spring, and are made small and neat to carry in the vest pocket. Sent by mail on receipt of price..... **25**c.

GRANULATED CHARCOAL.

A little ground charcoal, mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy

1 lb. **10**c.; 5 lbs., **30**c.; 10 lbs., **50**c.; 25 lbs., **$1.00**; 100 lbs. **$3.50.**

CLOVER MEAL FOR POULTRY.

By all odds the best and most economical way of feeding clover. Can be fed in mash with other food. 50-lb. bag, **$1.25**; 100-lb. bag, **$2.00.**

CUT CLOVER HAY.

Excellent food for winter and early spring. 50-lb. bag, **$1.25**; 100 lbs., **$2.00.**

GROUND BEEF SCRAPS.

Our ground beef scraps are specially prepared. Feed three times a week at the rate of about a handful to every three birds in the morning meal of hot food During warm weather the scraps need not be fed more than once a week.

5 lbs., **25**c.; 10 lbs., **40**c.; 50 lbs., **$1.25**; 100 lbs., **$2.25.**

MEAT MEAL.

This is a true egg-producing, flesh and bone-forming food, and supplies just what laying hens and growing chicks require. It is not a medicine. It is fed with other foods. Fed to small chicks about three times a week will promote health growth and vigor.

5 lbs., **25**c.; 10 lbs., **40**c.; 25 lbs., **75**c.; 50 lbs., **$1.25**; 100 lbs., **$2.25.**

CRACKED POULTRY BONE.

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. The bones are extra selected, being first boiled to remove the meat, and then ground. No chemicals whatever are applied to them in the course of manufacture, so that they are turned out green and pure. Should be fed to the poultry daily, about a handful to every five fowls, like grain or any other feed. An excellent bone and egg producer, keeping the fowls strong on their legs and largely increasing their laying qualities.

5 lbs., **25**c.; 10 lbs., **40**c.; 35 lbs., **$1.00**; 100 lbs., **$2.25.**

BONE FLOUR FOR POULTRY.

For mixing once a day with soft feed this is unsurpassed. Laying hens and young chickens, whose digestive powers are not strong, are much benefitted by this, especially during the winter months, or where closely confined in yards. This is exactly the same as the cracked bone described above, only it is ground much finer. 5 lbs. **25**c.; 10 lbs. **40**c.; 30 lbs., **$1.00**; 100 lbs., **$3.00.**

CRUSHED OYSTER SHELLS.

This is a most important article for the poultry yard through the winter, and should be liberally supplied to the fowls. In summer, when left to run at large they can find their own shell-making material, but when everything is frozen or covered with snow, they must be helped out if eggs are wanted

5 lbs., **10**c; 100-lb. bag, **50**c.; 500 lbs., **$2.00.** Special prices in large quantities

MANN'S GRANITE AND MICA CRYSTAL GRIT

To aid digestion it is necessary to feed some gritty material. These supply this want better than any other article known.

5 lbs., **15**c.; 100 lbs., **90**c.; 200 lbs., **$1.65**; 500 lbs., **$3.50.**

SUNFLOWER SEED.

Highly recommended for poultry as one of the best egg-producing foods keeping them in good condition. Lb. **8**c.; 5 lb., **25**c.; 100 lbs., **$3.00.**

KAFFIR CORN.

(Red or White.)

Makes excellent food for poultry or pigeons, either fed in the and cooked. Also an excellent forage plant. Sow four to five pounds lbs., **25**c.; bus., **$1.25.**

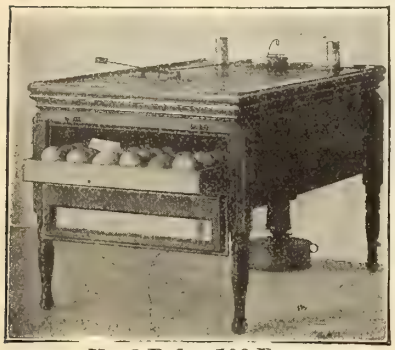
PIGEON FOOD.

CANADA FIELD PEAS.—Peck, **40**c.; bushel, **$1.25.** BUCKWHEAT **10**c.; peck, **10**c. HEMP SEED.—Pound, **8**c.; 4 pounds, **25**

Prairie State Incubators and Brooders.

PRICES ON PRAIRIE STATE INCUBATORS AND BROODERS have been considerably reduced. We honestly believe that we are today offering the public the best line of Incubators and Brooders ever put upon the market at the price which we are now selling them. Every machine is constructed of the very best material, finely finished, self-regulating, having automatic turning tray which is a very strong feature, and all machines are built over the same pattern. One machine will do just as good work as another, and no one need hesitate to send us an order for any style or size that the Company manufacture. We warrant the machines first-class in every respect, and if the purchaser finds they are not as we advertise, they are at liberty to return them and we will refund the money. We want no person's money unless we give them value received for the same.

PRICE LIST OF INCUBATORS AND BROODERS.

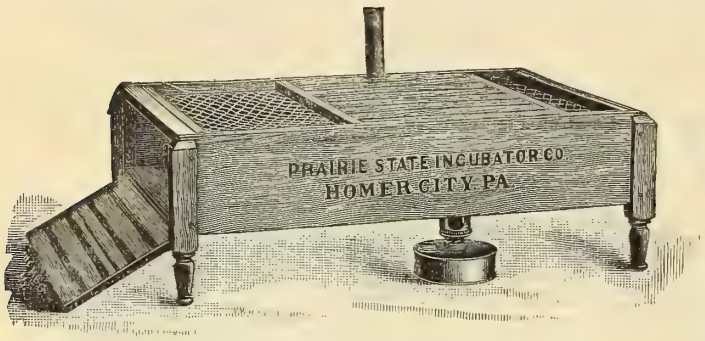


No. 2 Baby, 100 Eggs.

Incubators.

	Capacity.	Weight, Crated.	Price.
No. 1, Baby,	50 Eggs,	45 lbs.	$6.00
No. 2, "	100 "	70 "	10.00
No. 1, Style A	150 "	170 "	20.00
No. 2, " A	210 "	215 "	26.00
No. 3, " A	300 "	260 "	32.00
No. 1, " B	150 "	150 "	15.00
No. 2, " B	210 "	195 "	22.00
No. 3, " B	300 "	240 "	25.00
Special Duck,	200 "	260 "	32.00

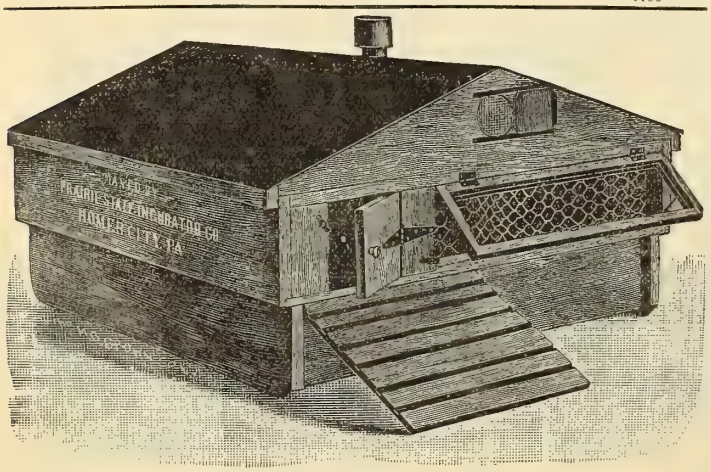
Brooders.



Style D, Hot-Air Indoor Brooder.

The simplest and cheapest on the market.

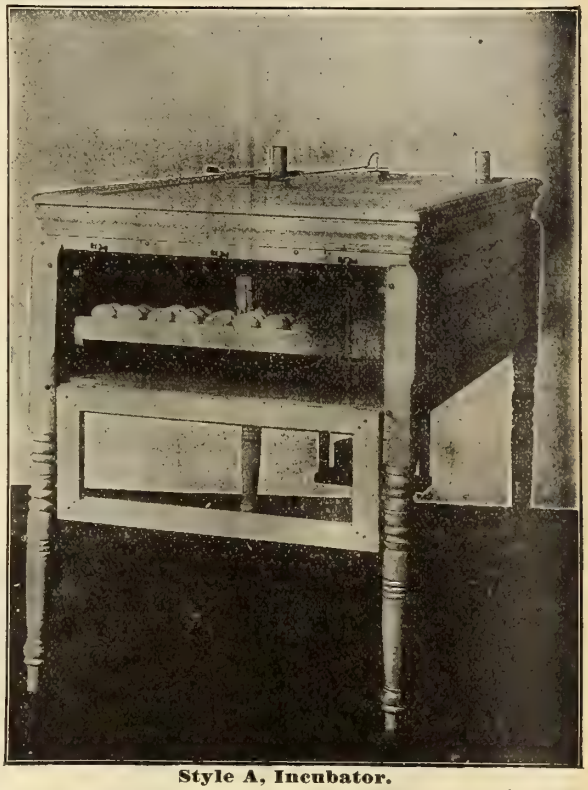
	Capacity.	Weight, Crated.	Price.
No. 1.....	80 Chicks.	60 lbs.	$7.00
No. 2	125 "	85 "	9.00



Style C, Hot-Air Outdoor Brooder.

Has all the convenience of the Hot-Water Brooder. Is rat, rain and storm proof.

	Capacity.	Weight, Crated,	Price.
No. 1.....	100 Chicks.	125 lbs.	$12.00
No. 2	150 "	185 "	16.00



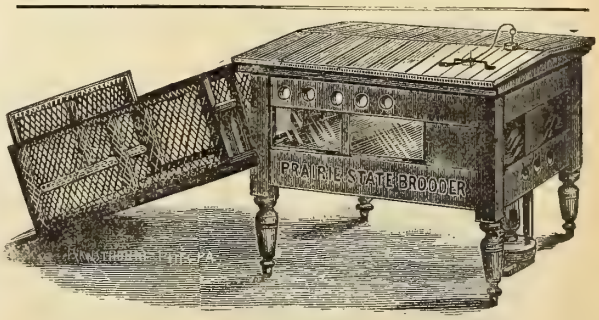
Style A, Incubator.

Prairie State Thermometers special tested. Metal, 75 cents; postpaid.

Burners for No. 1 Incubator Lamp, 25 cents, postpaid; for Nos. 2 and 3 Lamps, 35 cents, postpaid.

Lamps for No. 1 Incubators, 65 cents; for No. 2, 75 cents.

Egg Tester, 35 cents, postpaid. Brooder Lamps, 75 cents.



Style A, Hot-Air Brooder, with Runs.

(Self-Regulating Top and Bottom Heat).

This Brooder is intended for indoor work only. They will do the work satisfactorily, and as they are well made and finely finished, can be placed in any building, or moved from one place to another.

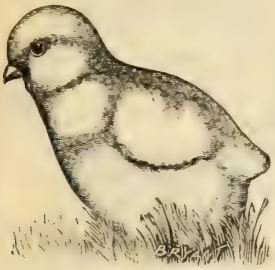
	Capacity.	Weight, Crated.	Price.
No. 1.....	100 Chicks.	100 lbs.	$13.50
No. 2.....	200 "	120 "	18.00

OYSTER SHELLS BY THE 100 POUNDS, TON OR CAR LOAD.

INCUBATORS AND BROODERS—Continued.

Chick Manna, or Health Food

For LITTLE CHICKS.



This preparation is specially prepared for little chicks when first hatched. Our own experience has proved its efficacy. This should be the first and only food, and continue for 10 or 12 days before feeding anything else; directions for feeding on each package.

1-lb. pkg., **10** cts.; by mail, **25** cts.
5-lb. pkg.....**40** cts.
15 lb. pkg.....**$1.10**
60-lb. box, bulk. **4.20**

DEATH TO LICE.

A DISINFECTANT INSECT POWDER.

This powder is unrivalled as an insecticide; handy to use, cheap to buy, and does the work quick.

15 oz. package.....**$ .25** Postpaid.....**$ .40**
48 oz. packkge..... **.50** Postpaid..... **1.00**
100 oz. package..... **1.00** By Express.... ....

LEE'S LICE KILLER

is the result of long experiment with various insecticides and possesses the unique advantage of not requiring contact with the vermin to kill. Being a liquid paint, it has manifold advantages over any form of powder or liquid; it is easily applied to roost-poles and about the poultry-house, and kills all vermin, mites, bed-bugs, etc., that have their lodging in the cracks and crevi es.

Price, quart, **35** cents; half gallon, **60** cents; gallon, **$1.00**; 5 gallons, **$4.00.**

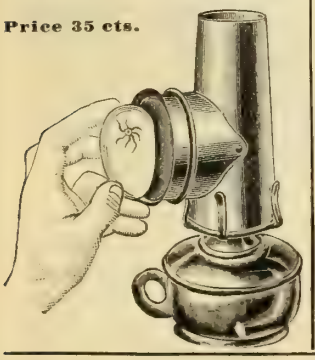
PERSIAN INSECT POWDER.

Per lb., **40** cents; 5 lbs, **$1.75.**

A Child 4 Years of Age Turning Eggs in the New Prairie State.

EGG TESTER.

Price 35 cts.



TOUGH ON FLIES.

One application instantly and positively relieves horses and cattle from all annoyance from green heads, the dreaded Texas heel fly, as well as other flies, gnats and insects of every description for at least twenty-four hours. It improves the coat of the animal and abolishes the use of fly nets.

Price, quart, **50** cents; half gallon, **90** cents; gallon, **$1.50.**

CAST IRON POULTRY TROUGHS.

18 inch.....**$1.00.**
27 inch..... **1.25.**

(See Page 120.)

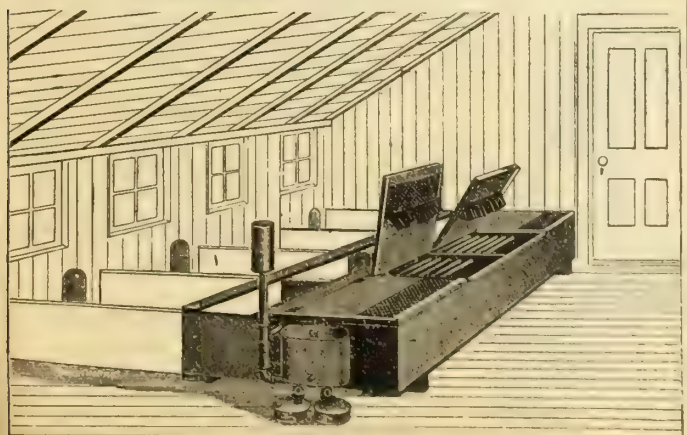
Same shape as Hog Troughs. This is an indispensable article for parties raising poultry. Is is readily cleaned, and no leaking.

No. 0, 8 inches long.....**20c.**
No. 1, 20 inches long.....**40c**
No. 2, 23 inches long.....**50c**

THOMPSON'S JR. BANNER NO. 7 VEGETABLE AND ROOT CUTTER.

Suitable for a Flock of 50 to 1000 Fowls.

This cutter is adapted especially for poultry men and farmers or for suburban residents keeping a couple of cows. Cuts roots and vegetables into fine chicken feed Capacity one bushel in about five minutes. Price **$5.00.**



PRAIRIE STATE Sectional Brooder,

Style B, Hot Water.

This Brooder is intended for small or portable Brood-houses, or run in connection with the pipe system and hot water stove. It will be noticed, by looking at cut, just how the machine is constructed and how heated. It is very simple, easy to operate, easy to clean, and not hard to move from one place to another. It is provided with a movable floor that can be raised or lowered instantly.

No. 2, 200 chickens.....**$19.00**
No. 3, 300 chickens..... **24.00**
No. 4, 400 chickens..... **29.00**

INSECT DESTROYERS, ETC.

BUG DEATH.

TO THE FARMERS AND GARDENERS:
Bug Death is a comparatively new insecticide, having been on the market but three years. If you have made a test of it we rest assured that you will be a permanent customer. If to you it is new or unheard of, we would state that we have testimonials from prominent dealers in the different States as to the practical results derived from the use of Bug Death.

DIRECTIONS FOR USING IN WATER.
Add 12½ pounds to 80 gallons water, and mix thoroughly.
1 pound package, **15** cents; 3 pound package, **35** cents; 5 pound package, **50** cents; 12½ pound package, **$1.00.**

PERFECTION SHAKER—65 cents.
For applying Bug Death to potato vines.

RUBBER ATOMIZER—75 cents.
For applying Bug Death to currant bushes, cucumber, squash and other small vines, bushes, house plants and poultry.

SLUG SHOT.

A non-poisonous powder, and a very popular insecticide; it requires no further mixing or preparation; easily applied, and not injurious or dangerous to animals, the person applying it, or fruits and vegetables treated. Very effectual in destroying potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. It will be necessary, however, to apply it occasionally, for it does not kill the eggs or prevent them from hatching. The best time to apply it is early in the morning, particularly for potato bugs, as they do not feed during the night. Apply with duster, bellows or gun. Ten to forty pounds is sufficient for an acre.

5 pound packages, **25** cents; 10 pound packages, each, **45** cents; 25 pounds, **$1.00.**

PERSIAN INSECT POWDER OR BUHACH.

A most effective non-poisonous impalpable powder—so fine that it penetrates the innermost crevices—for worms, flies, aphis and almost all kinds of insects. It is very effectual, suffocating them by filling up the breathing pores.

Price, per pound, **40** cents, or by mail **55** cents per pound; ¼ pound, **15** cents.

DRY.—Blow on with a bellows or gun.

SOLUTION.—Dissolve 1 ounce to 3 gallons of water, and apply with syringe or pump.

PARIS GREEN.

¼ pound, **10** cents; pound, **25** cents; by mail, **40** cents.

LONDON PURPLE.

Very poisonous, and equally as efficacious as Paris Green, and more soluble in water. Use in the same way as Paris Green.

1 pound, **25** cents; by mail, **40** cents.

PURE WHITE HELLEBORE.

The cheapest and best preparation for destroying rose slugs, currant worms, etc.

¼ pound, **10** cents; pound, **30** cents; by mail, **45** cents per pound.

LEMON OIL.

This well-known insecticide has had for some time a marvelous success in England; perfectly safe and harmless to the tenderest foliage and roots. It effectually destroys mealy bug by syringing or dipping. It also destroys scale, thrip, red spider, black and green fly, caterpillar, American blight, mildew, etc. Dilute with 50 parts water.

½ pint, **25** cents; pint, **40** cents; quart, **75** cents; ½ gallon, **$1.25**; gallon, **$2.00.**

NIKOTEEN

Is the most powerful known insecticide, and will be found more economical and convenient than weak tobacco extracts.

Price, pint cans, **$1.50**; 5 cans, **$7.00.**

Vaporizing pans, for above, **50** cents; irons, **50** cents; 3 pans, 3 irons and 1 hook, **$3.00.**

APHIS PUNK (Nikoteen).

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing NIKOTEEN or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of nicotine that kill aphis and thrip very effectively.

Per box, **60** cents; per 12 boxes, **$6.50.**

WHALE OIL SOAP.

Makes an excellent wash for trees and plants where insects and eggs affect the bark, and for smearing on the trunks of trees to prevent worms from crawling up.

Price, cake, **10** cents; per pound, **15** cents; 5 pounds, **60** cents; 9 pounds, **$1.00.** Large quantities at special prices.

For insects on plants, dissolve one-quarter pound to a gallon of water; apply with syringe or spraying pump. For bark insects, etc., dilute with water to consistency of thick paint, and apply with brush.

"THYMO-CRESOL," ENGLISH COLD-WATER SHEEP DIP.

A gallon makes a hundred gallons for most uses. A world-famous dip, and, besides, is unexcelled as an internal and external remedy for animal wounds and skin diseases, for killing animal parasites, mixing with whitewash for trees, chicken-houses, kennels, etc.

Price, pint can, **45** cents; quart can, **60** cents; 1 gallon can, **$1.75.**

PINNER'S TOBACCO SOAP.

Pound, **45** cents; by mail, **55** cents.

FLOWERS OF SULPHUR.

For the prevention and destruction of mildew on roses and other plants. Apply with bellows or gun.

Pound, **10** cents; 5 pounds, **40** cents; 10 pounds, **60** cents.

N. B.—If by mail, add 15 cents per pound for postage.

BORDEAUX MIXTURE.

A valuable and indispensable fungicide for grape growers, thereby insuring larger crops and finer grapes, and preventing failure. A sure cure and preventive for black rot, mildew and rust; also of great value for other plants with kindred diseases.

Per quart, **40** cents; per gallon can, **$1.10.**

By express or freight only. Mix one part of this to 50 parts of water.

BORDEAUX MIXTURE.

Ready for use by simply adding water.

1 pound box, price **15** cents, makes 5 gallons spray; 5 pound box, price **60** cents, makes 25 gallons spray.

KEROSENE EMULSION (a Paste).

Ready for use by simply adding water, 25 to 50 parts to one.

Quart, **40** cents; gallon, **$1.10**; 5 gallons, **$4.50.**

This is strictly an insecticide for plant lice of all kinds, rose bugs, cabbage bugs, melon insects, fowl, human and animal lice, caterpillars, tobacco flies, peach lice, red spiders, green fly and all sucking insects.

TOBACCO DUST, FINE.

For green and black aphis, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots.

Price, 5 pounds, **20** cents; 20 pounds, **50** cents; 100 pounds, **$1.00**; 200 pounds, **$1.75**; 500 pounds, **$3.75.**

For insects on plants, apply with powder duster or bellows.

For worms or grubs in the soil, apply liberally to the surface and rake in, or strew thickly in the drills before planting.

TOBACCO STEMS.

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphis and other insects.

5 cents a pound; large quantities, **3** cents a pound.

Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator, and light.

5 cents a pound; 100 pounds, **$1.00.**

FUMIGATORS.

Eureka, No. 2, height 16 in., for a house 12x40 ft., **$1.75.**

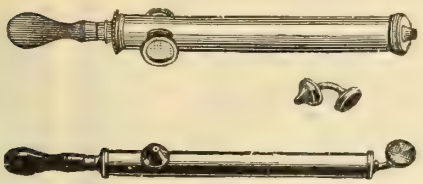
Eureka, No. 3, height 20 in., for a house 15x 100 ft., **$2.25.**

FOR OTHER INSECTICIDES—SEE PAGE 53.

FLORIST AND GARDEN SUPPLIES.

Brass Garden Syringes.

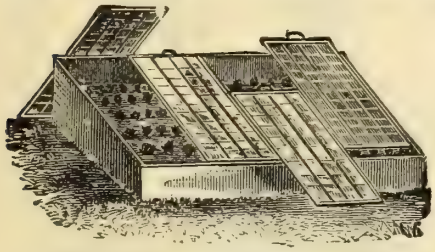
OUR SYRINGES ARE THE BEST MADE.



Barrel 16 in. x 1½ in. diameter.

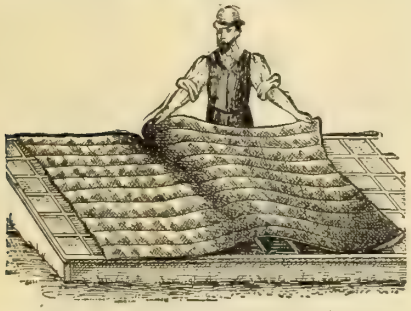
No.	A, Barrel 12-in. long, 1 spray and 1 stream rose	$2.25
"	12, Barrel 13 in. long, 1 coarse and 1 fine spray and one stream rose	3.75
"	2, Two sprays, roses and jet, 14½x15-16 in.	4.25
"	10, Barrel 18 in. long, 1 coarse and 1 fine spray and 1 stream rose with patent valves and elbow joint	6.00
"	1, One stream, 2 sprays, 15x1¼ in.	2.50

Unglazed Hot-Bed Sash.



Price..... 75c

Hot-Bed Mats.



Made of strong Burlap, interlined with wool, 76x76 in.

Price, 40x76.....**85c.** each, **$9.50** per doz.
" 76x76.....**$1.15** each, **$13.00** "

Rattan Hot-Bed Mats.

These are the most durable yet introduced, and will probably supersede all others when their merits are known. Size, 72x74 in., covering two frames.

Price.....**$2.00** each, **$22.00** per dozen.

Plant Bed Cloth.

A cheap substitute for glass, and will keep out many degrees of frost. Also useful for shading material. Samples mailed on application.

Light grade,	4c. yd.	Piece of about	65 yds.,	3½c. yd.
Medium,	" 8c. "	" " "	60 "	7c. "
Heavy,	" 11c. "	" " "	40 "	10c. "

Putty Bulbs.

Large Size.

Price..... $ .60
Price by mail..... $1.00

Plant Sprinklers.

For sprinkling cut flowers, seedlings, plants, clothes, etc.

Medium size..... $ .60
Large size.... 85c. and 1.00

By mail 10 cents extra.

Ironclad Watering Pots.

WITH ADJUSTABLE NOZZLES.

4-qt	$ .45
6-qt	.50
8-qt	.55
10-qt	.60
12-qt	.65
16-qt	.75

Wotherspoon Make

6-qt	$1.75
8-qt	2.00
12-qt	2.50

Grafting Wax.

¼ lb	10c.
½ lb	20c.
1 lb	35c.

Mastica Glazing Machine.

Price.....**$1.00**

Mastica.

For Glazing Greenhouses, Sashes, etc., new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold.

"Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

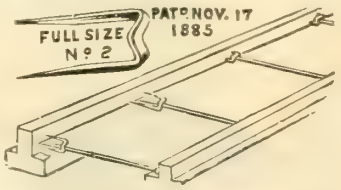
Price, ½ gal	$ .75
" 1-gal	1.25
" 5 gal	5.75

Raffia.

THE BEST MATERIAL FOR TYING PLANTS, VINES, ETC.

Per lb..... **20c.** Ten lbs..... **$1.50**
SILKALINE, spool..... **20c.**

Van Reyper's Glazing Points.



The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pincers; no "rights" and "lefts" to bother with.

Price, per box of 1,000, **60c.**, or by mail, **75c.**
" in lots of 5,000, by express **55c.** per 1,000
Pincers, price, per pair, **50c.**, or by mail **60c**

Sphagnum Moss.

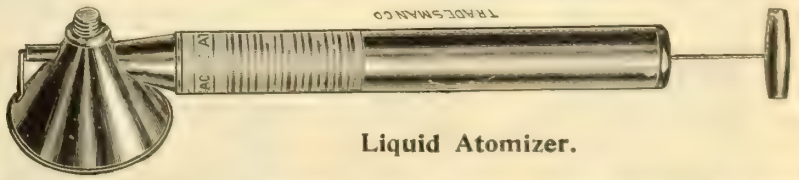
FOR PACKING GROWING ORCHIDS, PLANTS, TREES, ETC.

Per barrel.....**$1.25**
Per bale..... **2.50**

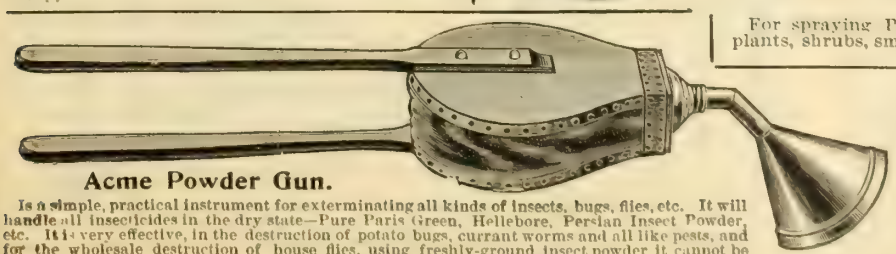
Stable Brooms.

FOR STABLES, LAWNS AND WALKS.

Price, with handle..... **60c**



Liquid Atomizer.



Acme Powder Gun.

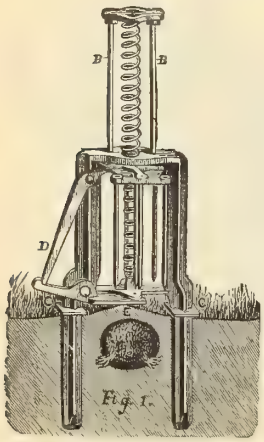
Is a simple, practical instrument for exterminating all kinds of insects, bugs, flies, etc. It will handle all insecticides in the dry state—Pure Paris Green, Hellebore, Persian Insect Powder, etc. It is very effective, in the destruction of potato bugs, currant worms and all like pests, and for the wholesale destruction of house flies, using freshly-ground insect powder it cannot be excelled. Price.....**75c.**

For spraying Paris Green and other insecticides on potato plants, shrubs, small trees, house plants, live stock and poultry. For potatoes: put one rounding tablespoonful of poison into the can, fill with water and thoroughly agitate. Should action of valves become weakened from wear, take out the two screws at end of tube, draw out plunger and wrap twine around between ends of wood washer, spreading leather with fingers; keep plunger well oiled. Pump is for filling only

Price, Brass Tank	$ .70
" Galvanized "	.50
" Tin "	.30

HORTICULTURAL TOOLS AND SUPPLIES.

L. H. OLMSTEAD'S IMPROVED RELIABLE MOLE TRAP.



No Cheap Trap so Good.
No Good Trap so Cheap.

Springs are furnished to operate the trap. The spring can be readily attached and detached.

This trap is constructed entirely of steel and iron. Each trap is packed in a strong paper box, one dozen in a case.

Price..... **$1.50**

OUT OF SIGHT MOLE TRAP.

Considered to be one of the best and cheapest Mole Traps on the market.

Especially valuable for hot-beds and frames on account of its convenient size.

Price..... **$1.00**

THE MODEL MOLE TRAP.

This, while possessing all the good qualities of other traps, is especially adapted for setting under glass.

Price.. **$1.75**

G. & T. MOLE TRAP.

This is a good Mole Trap for the money.

Price..... **$1.00**

THERMOMETERS.

Tin, Japanned, 7-inch	$ .15
10-Inch Distance Reading Thermometer	.25
Boxwood, fine finish, red spirit	1.00
Plain metal, brass finished	.50
Dairy or hot-bed, glass, floating	.25
Glass, floating, large	.50
8-Inch Dairy, stands boiling water	.50
Mushroom bed, or hot-bed, with brass end	1.00
Mushroom bed, or hot-bed, with brass end, extra good	1.50
Porcelain scale, red spirits	1.00
New Incubator Thermometer	.75

Stands in tray between the eggs and can be read without opening drawer.

By mail, add **5 cts.** each.

LIGHT PLANT STAKES.

	Each.	Per Doz.	Per 100
1½ feet	$ .02	$ .15	$ .80
2 feet	.03	.25	1.40
2½ feet	.05	.38	2.00
3 feet	.05	.46	2.75

POT LABELS.

	Plain.	Painted.
3½ inch, per 1,000	$ .45	$ .60
4 " "	.50	.65
4½ " "	.55	.70
5 " "	.65	.90
6 " "	.75	1.00

12 inch, per 100..... **50** cents.

PAINTED TREE LABELS.

3½ inch, Notched or Pierced..... **65** cents per 1,000
3½ " Iron Wired..... **75** cents per 1,000

TROWELS.

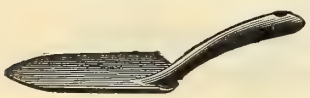
This cut represents one of the best Trowels ever offered to the trade. It is made of forged steel, strong and durable. English, 6-inch, **40** cts.; 7-inch, **50** cts. American, No. 3090, **35** cts. Cheap wood handle Trowels, **5** and **10** cts. each. If trowels are wanted by mail, send 10 cts. additional for postage.

CLEVES' TROWEL.

The New Garden Implement.

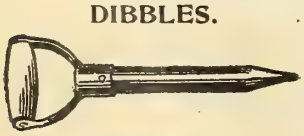
No. 1—Standard, 8-inch blade .....**25c.**; mailed, **35c.** each.
No. 2—Medium, 7-inch blade.. .....**20c.**; mailed, **30c.** each.
No. 3—Daisy, 5-inch blade ..... **15c.**; mailed, **20c.** each.

ALL STEEL TROWEL.



Very strong and durable. Price.....**15c.**
Full Tinned Malleable Trowel, **10c.**
Mail, **10c.** extra.

DIBBLES.



For transferring plants. By far the best thing for the purpose ever introduced.

Straight, made of Tubular Steel, **$1.00**

Right-angle shape, Steel Polished, Wood Handle.... **.40**

GARDEN REELS.

Small Size..**$ .75**
Large Size.. **1.00**

HEAVY OR DAHLIA STAKES.

	Each.	Per Doz.	Per 100
3 feet	$ .06	$ .67	$3.85
4 feet	.08	.88	5.15
5 feet	.10	1.10	6.40

CANE STAKES.

5 to 7 feet long..... ....Per 100, **$1.00.** Per 1,000, **$7.00**

UNPAINTED STAKES OR DOWELS.

Long.	Diameter.	Per Doz.	Per 100	Per 1,000
36 inch	¼ inch	$ .15	$ .75	$4.50
42 inch	¼ inch	.20	.85	5.00
44 inch	⅜ inch	.25	.90	6.00

GALVANIZED HARD STEEL PLANT STAKES.

These are a great improvement over wooden stakes for Carnation and Rose beds, as they are durable, neat and strong.

	Per 100.	Per 1,000.
2½ feet long	$ .65	$5.50
3 "	.75	6.25
3½ "	.90	7.50
4 "	1.00	8.25
5 "	1.20	10.00

EUREKA HAND WEEDER.

A very handy and useful little instrument.
Short handle, **25c.** Long handle, **35c.**

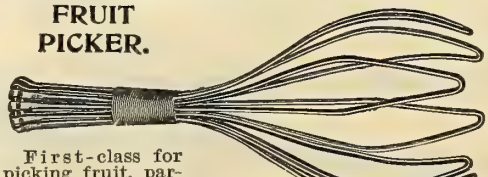
EXCELSIOR WEEDER.

Price, **10c.**; mailed, **15c**

LARGE HAND WEEDER.

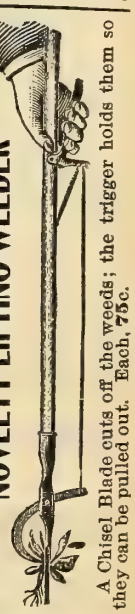
Large Size.....**15c.**
Small Size.....**10c.**
By mail, **10c.** extra.

FRUIT PICKER.



First-class for picking fruit, particularly when wishing to select ripest without interfering with immature specimens. Price .....**50c.**

NOVELTY LIFTING WEEDER



A Chisel Blade cuts off the weeds; the trigger holds them so they can be pulled out. Each, **75c.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

HORTICULTURAL TOOLS.

CONTINUED.

Fig. 2.

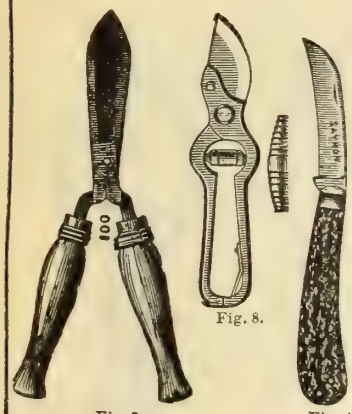


Fig. 3. Fig. 8. Fig. 4.

Fig. 5. Fig. 6.

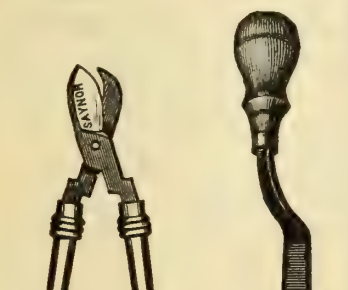


Fig. 7. Fig. 1.

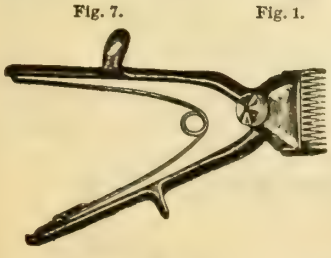


Fig. 9.

ASPARAGUS KNIFE.—Fig. 1.

Made of solid steel..... 25c. By mail..... 35c.

ASPARAGUS BUNCHER.

Price..... $1.50

BUDDING KNIVES.—Fig. 4.

Price..... No. 12, 75c.; No. 10, $1.00

EDGING KNIVES.—Fig. 12.

9 in. American	$ 50	9 in. Eng., all Bright	$1.50
8 in. Eng. Blk	1.10	10 in. Eng. Blk	1.50
8 in. Eng., all Bright	1.25	10 in. Eng., all Bright	1.75
9 in. Eng. Blk	1.25		

FLOWER AND GRAPE SCISSORS.—Fig. 11.

Flower Scissors..... 75c. Grape Scissors..... 65c.

5 cents extra for postage.

GRASS HOOKS.—Fig. 2.

American	25c.
German, No. 0, 22c.; No. 1, 25c.; No. 2,	35c.
Best Eng. Grass, No. 2, 40c.; No. 3,	50c.
Best Eng. Hedge Hooks, No. 4	60c.
Best Eng. Hedge Hooks, No. 5	75c.

GRASS EDGER.—Fig. 5.

Price, without wheel	$2 25
Price, with wheel	2.75

GRASS SHEARS.—Fig. 10A

Bent Handle, No. 360	35c.
Trowel Handle, No. 460	85c.

Mail, add each 15c.

HORSE RADISH GRATER—Fig. 14.

Price, with perfor'd tin cylinder	$7.00
Price, with steel pin	8.00
Machine for power	14 00

HORSE OR DOG CLIPPERS.—Fig. 9.

Very handy about a horse; also for Clipping Dogs.

Mascot Clipper	$1 00	Stewart Clipper	$1.00
Nickel plated, each	1 75	Top plate, each	75
Bottom plate	1 00	Spring	15

HORSE SCISSORS.

No. 9162..... Extra Fine..... $1.25

Mail, add 15c.

HORSE SHEARS.—Fig. 19.

Bent Handle, No. 1087	50c.
Curved Handle, No. 1090	60c.

By mail, add 15c.

LAWN SHEARS.—Fig. 6.

2 wheels, 8 in blade, for cutting on narrow borders, under fences and shrubs..... $2.75

HAY KNIVES.

Fig. 13.

Lightning	$1.25
American Sickle Edge	1.50

HEDGE SHEARS.

Fig. 3.

8 inch	$1.25	10 inch	$1.75
9 inch	1.50	12 inch	2.25

With Notch 25 cents extra.

LOPPING SHEARS.

Fig. 7.

Balto. Draw Cut Lopping Shears	$2.50
American Shears, No. 1	90
American Shears, No 2	1.25
American Shears, No 5	1.00

PRUNING SHEARS.—Fig. 8.

No. 1, Malleable Pruning Shears, with steel blade	50c.
No. 2, Malleable Pruning Shears, with steel blade	60c.
9 in. Solid Steel Pruning Shears	$1.25
Full polished pruning shears	1.00
6 in. nickle plated Ladies Flower Shears	75c.

NEW VINEYARD PRUNING SHEARS.

These have been recently introduced among the vineyardists and have met with great favor. Price..... $1.25

PRUNING KNIVES.—Fig. 4.

Prices..... No. 126, 50c.; No. 2173, 65c.

PRUNING SAWS.—Fig. 18.

16 in	70c.
18 in	80c.
20 in	90c.
Saw and chisel, combined	$1.10

SCUFFLE HOES.—Fig. 15.

4 inches	50c.
6 inches	60c.
8 inches	70c.
10 inches	80c.

SCYTHES.

American	$ .90
Best American	1.00
Bush or Brier Scythes	1.00
English T. Waldron	36 in. $1 35; 38 in. $1.40; 40 in. 1.45
American Grain	1.50
English Waldron Grain	50 in. $1.75; 52 in. $1.80; 54 in. 1.90

SCYTHE STONES.—Fig. 16.

No. 1—Willoughby Creek	10c. each, $1.00 per doz.
No. 2—White Mountain	10c. each, 1.00 per doz.

These are far superior to Darby Creek and not so easily broken

No. 3—Green Mountain	8c. each, 75c. doz.
No. 4—Indian Pond No. 2, (red end)	5c each, 50c. doz.
No. 5—Mowing Machine (beveled)	10 c. each.
No. 6—Darby Creek	10c. each, $1.00 doz.
Cigar Emory	10c. each, $1.00 doz.
No. 7—Imported English Talacre	20c. each.

None genuine unless labeled Sir Pyers Mostyn, Talacre Quarries.

TELEGRAPH TREE PRUNERS.

Price, without pole	$1.15
Extra blades	25c
Little Giant Pruning Hook and Saw	1 75
Extra springs	25c.

WATERS' TREE PRUNERS.—Fig. 17.

4 feet long	$ 75
6 feet long	85
8 feet long	95
10 feet long	1 00
12 feet long	1.10

Extra knives, 20 cents.

WIRE PLIERS.

Combination Wire pliers	$1 50
Fence wire cutters, 8 in. 50c.; 10 in. 75c.	

SHEEP SHEARS.—Fig. 10.

No. 3749	$ 75
No. 3753	1.00

By mail, add 15 cents.

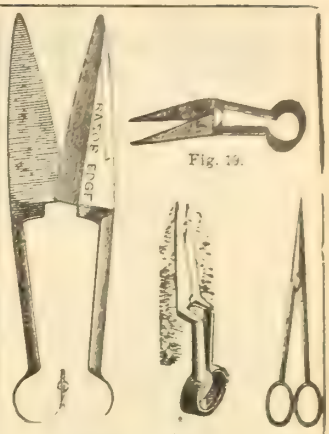


Fig. 10. Fig. 10A. Fig. 11.

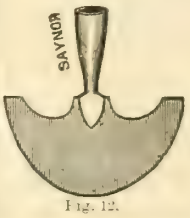


Fig. 12.

Fig. 14.

Fig. 13.

Fig. 15.

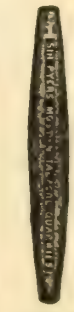


Fig. 16.

Fig. 17.

Fig. 18.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

SPRAY PUMPS, ETC.

Brass Barrel Spray Pump.

Figure 766.

Cylinder, Valves, Valve Seats and Discharge ALL BRASS.

All working parts submerged in liquid to be sprayed, hence no priming is necessary. Patent Agitator. No complicated parts. Throws constant spray.

Price No. 306. Figure 766, complete with 2 leads of hose of ½ inch three-ply, each 5 feet long and two Myers' Vermorel Nozzles. List, **$12.00;** Retail, **$7.20.**

No. 305, same as above, complete with 5 ft. hose, list **$10.00;** retail **$6.00.**

Bordeaux Nozzles instead of Vermorel furnished when wanted.

Fig. 766.

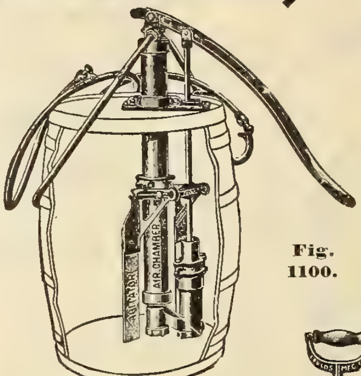


Fig. 1100.

LITTLE GIANT Brass Spray Pump and Fire Extinguisher,

WITH AGITATOR. Fig. 639.

This Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up.

PRICE LIST OF PUMPS SHOWN:

	Retail Price.	List Price.
No. 327½, Figure 639. Bucket Brass Spray Pump with Agitator, complete with hose and combination fine, coarse spray and solid stream nozzle.......	**$2.50**	**$5.00**
No. 328, Figure 639, Bucket Brass Spray Pump with Agitator complete with hose and combination fine, coarse spray and solid stream nozzle and an 8-ft. pipe extension..................	**2.75**	**5.50**
Vermorel or Bordeaux nozzles, each..................	**.60**	**1.00**

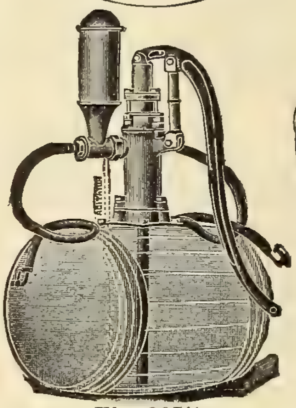


Fig. 905½.

Fig. 1129.

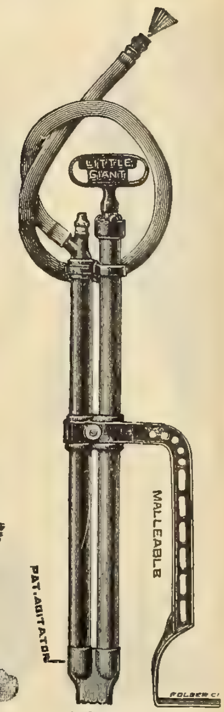


Fig. 639.

"STANDARD" SPRAY PUMP

AND DASH AGITATOR. Fig. 905½.

With Brass-Lined Cylinder, Brass-Cased Differential Plunger.

Pump has double discharges cut for pipe but when ordered without hose and nozzles we plug one opening and fit the other with brass bushing and half coupling for hose. Also supply brass suction strainer. Prices do not include barrel. **Figure 905½, sizes, prices, etc.**

	No.	Dia. Outer Cyl.	Suction.	Double Dis.	Brass-Lined.	
					Retail	List.
Pump with Str'n'r.	2	2½ in.	1 in. pipe.	½ in. hose and ¾ in. pipe.	**$5.75**	**$9.50**
	4	3 "	1¼ "	¾ in. hose and 1 in. pipe.	**6.30**	**10.50**
Outfit A for Single Spray.	**Fig. 905½.** 2½ in. Spray Pump with 2½ ft. 1 in. iron suction pipe with brass strainer and one lead of 10 ft., ½ inch discharge hose with "Seneca" (or Vermorel) Spray Nozzles.				**8.40**	**14.00**
Outfit AA.	**Fig. 905½.** 3 in. Spray Pump fitted in same manner.				**9.00**	**15.00**
Outfit B for Double Spray. as shown in cut.	**Fig. 905½.** 2½ in Spray Pump with 2½ ft. 1 in. iron suction pipe with brass strainer and two leads of 10 ft. each, ½ inch discharge hose, with "Seneca" (or Vermorel) Spray Nozzles.				**10.50**	**17.50**
Outfit BB.	**Fig. 905½.** 3 in. Spray Pump fitted in same manner.				**11.25**	**18.50**

We mount on barrel, ready for use, at extra net charge of $1.50. Brass shut-off for two leads at list $2.00, retail $1.00. Write for Gould's Special Spray Catalogue.

BRASS BUCKET PUMPS.

Figure 1129, "Bordeaux" Brass Garden and Spray Pump is especially designed for spraying in gardens and greenhouses. The pump is double-acting in effect, has Gutta Percha ball valves, proof against the action of acids and oils. Foot piece is malleable iron. The pump end of discharge hose is wire wound, adding largely to its durability. Our "Seneca" nozzle is furnished with pump. Pump has no suction hose, but is set in pail or bucket with foot-rest outside.

Figure 1129. PRICE.	Retail.	List.
With 3 feet ⅜ inch discharge hose and Spray Nozzle.......	**$3.00**	**$6.00**

"POMONA" SPRAY PUMP. WITH AGITATOR.

All Working Parts of Brass. Figure 1100.

Working parts brass. No leather packing. Valves are brass; easily accessible; wing guided on beveled seats, gronnd to fit. Air chamber steel. Lever long and powerful, with adjustable stroke, 3, 4 or 5 inch. Solid Brass Plunger, machine turned, fitting gland accurately. Pump is held securely by adjustable clamp plate, made to fit either end or side of barrel, and by a small anchor located at bottom of barrel. The mechanical agitator is operated by stroke of the handle. Directions sent with each pump. **Figure 1100, sizes, prices, etc.**

	Plunger.		D'ble Dis.	Retail Price.	List Price.
	Dia.	Stroke.			
Pump Only. with Agitator.	2½ in.	3, 4 or 5 in. Adjustable.	½ in. hose. ¾ in. pipe.	**$11.25**	**$15.00**
Outfit A for Single Lead.	**Fig. 1100.** Spray Pump with one lead 10 ft., ½ in. discharge hose with "Seneca" (or Vermorel) Spray Nozzle.			**13.31**	**17.75**
Outfit B for Double Lead.	**Fig. 1100.** Spray Pump with two leads 10 ft. each, ½ in. discharge hose with "Seneca" (or Vermorel) Spray Nozzles.			**15.37**	**20.50**

We mount the "Pomona" Spray Pump in barrel ready for use at an additional net cost of $1.50. Brass shut-off for two leads at list $2.00, retail $1.00.

FOUR-ROW SPRAYING ATTACHMENT.

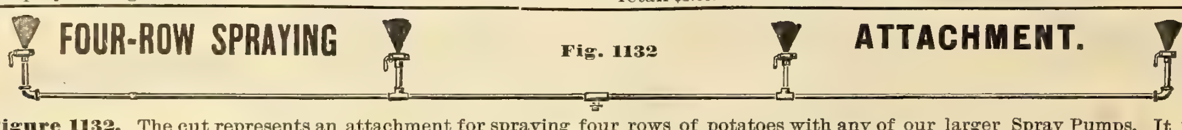


Fig. 1132

Figure 1132. The cut represents an attachment for spraying four rows of potatoes with any of our larger Spray Pumps. It has four "Seneca" Nozzles and connections for hose. Total length, 9 feet. Price, as per cut, retail **$5.00;** list **$7.00.** Also furnish two-row attachments, price **$2.50.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

20th Century Kerosene Sprayers.

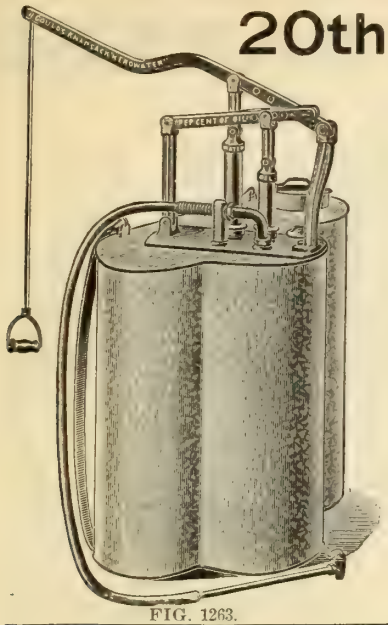


FIG. 1263.

Gould's Knapsack "Kerowater."

For Emulsifying and Spraying Kerosene and Water.

(Fig. 1263.)

Many conditions are encountered under which the barrel "Kerowater" cannot be advantageously operated, as in greenhouses, work on side hills, etc. For these purposes we have introduced the (Fig. 1263) Knapsack "Kerowater."

It is provided with straps for carrying on back, or may be used with reservoir resting on ground. It embodies the same principle as described under Fig. 1187, and consists of two independent Pumps, operated by a common lever, placed in a galvanized iron tank, with divisions for oil and water. Combined capacity about 5 gallons. Quantity of oil used is controlled by adjustment of a single pin, and may be varied to 5, 10, 15, 20 or 25 per cent. Pump may be operated by either hand by changing lever to right or left.

Fig. 1263. Knapsack "Kerowater" complete as shown in cut, with 4 feet of ⅜ inch discharge hose, "Seneca" Nozzle, and Pipe Extension 12 inches long.

PRICE—List..... $12.00
Retail..... 9.00

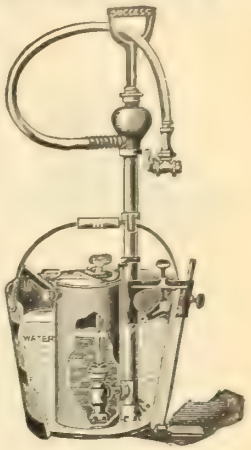


FIG. 649.

THE SUCCESS KEROSENE SPRAYER.

WITH REMOVABLE KEROSENE TANK.

IMPROVED COMBINATION FOOT REST AND BUCKET CLAMP.

(Fig. 649.)

In the Success Sprayer the kerosene attachment may be removed when Bordeaux Mixture or other solutions are used, and a cap, which we furnish, placed on the oil inlet.

The Success Kerosene Sprayer makes a most convenient article for general use in spraying shade trees, poultry-houses and flowers.

Fig. 649 has four feet of discharge hose with a Bordeaux Nozzle.

PRICE LIST.—

	List.	Retail
Fig. 649, complete, as in cut.....	$10.00	$7.50
7-foot section of hose and couplings, with pole connections	1.50	1.25

GOULD'S "KEROWATER"

For Emulsifying and Spraying Kerosene and Water.

It consists of two pumps, one for water and one for oil, but having one common exit at the hose. Both pumps are contained within the barrel. Instead of mixing the oil and water at the suction, the emulsion is made at the discharge. Kerosene is poured into the oil tank through a marked filling hole, and water into the barrel. The amount of oil used is controlled by the proportionate stroke of the pumps. In the end of the lever are drilled a number of holes (see top of cut), into one of which is inserted a coupling pin. By removing the pin from one set of holes to another the percentage of oil can be graded from 5 per cent. to 25 per cent. easily and quickly. Figures near each hole indicate the percentage of oil the pin working in that hole will supply. The mixture is positively accurate. A brass shut-off is seen near the top, attached to the hose, to prevent pure oil from being thrown at any time.

Barrel is furnished with outfits shown below:

FIG. 1187. SIZES, PRICES, ETC.

	List.	Retail.
Pump Only.—Diameter of Plunger, 2 in.; Stroke of Plunger, 4 in.; Discharge, ½ in. Hose.....	$21.00	$15.75
Outfit A, for Single Spray.—"Kerowater" Sprayer, with one lead 10 ft.; ½ in. Discharge Hose, with "Seneca" (or "Vermorel") Spray Nozzle.....	23.75	17.80
Outfit B, for Double Spray.—"Kerowater" Sprayer, with two leads 10 ft. each; ½ in. Discharge Hose, with "Seneca" (or "Vermorel") Spray Nozzle.....	26.50	19.87

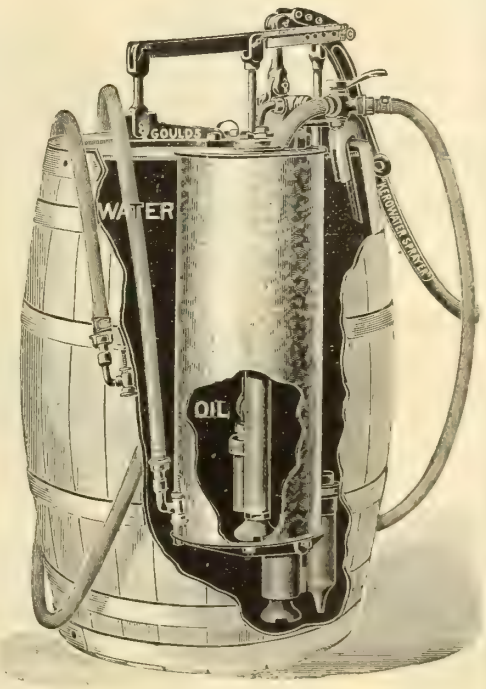


FIG. 1187.

The figures on the gauge indicate the per cent. of oil to the entire mixture which will be pumped when the indicator is placed at the different per cent. marks. Thus when the indicator points to **0** the valve in the kerosene tank is closed, so that pure water will be pumped. By turning the indicator a certain amount the check valve controlling the oil is allowed to raise a definite height, thus allowing a definite amount of oil to pass into the pump cylinder. The proportion of oil does not vary except as the oil indicator is turned.

EXAMPLE.—To make a mixture containing 15 per cent. oil (the proportion we recommend for general use), it is only necessary to fill the main tank with water and the smaller one with kerosene; turn the indicator to the 15 per cent. mark, and the apparatus is ready for use. A new proportion of oil may be obtained by simply changing the position of the indicator. When the position of the indicator is changed, however, the new proportion will not be obtained until a few strokes have cleared the mixture already in the pump.

Table Showing Uses of Kerosene Sprayers and Per Cent. of Oil Required. (Figs. 676 and 649.)

Uses of the Different Proportions of Oil.

Position of Indicator showing per cent. of oil.

0.	Pure water will be pumped when the oil valve is closed.
5.	Seldom used.
10.	Mealy bugs, scale insects and plant lice on tender plants. Horn flies on cattle. *Will not injure the foliage on tender plants.*
15.	Scale insects and plant lice of all kinds, except on tender hothouse plants. All caterpillars exposed on leaves, cabbage worms, ants, chinch bugs on corn. *Will not injure ordinary foliage.*
20.	Scale insects and plant lice not killed by 15 per cent. of oil. Lice on cattle, dogs, horses and poultry. Mites in poultry-houses. *Will rarely injure ordinary foliage.*
30.	Lice on hogs. Fleas on cats, dogs, etc. *Cannot be used on foliage without injury.*
40.	Ticks on cattle.
50.	For the winter treatment of scale insects.

The Weed Kerosene Sprayer

(Fig. 676.)

In this figure we show the outfit as a Bucket Sprayer, the dotted lines showing the handle and lever when in position, when used as a knapsack. It is in effect a Bucket, a Knapsack and a Kerosene Sprayer in one. The kerosene tank is readily detached from main tank, and a cap is furnished with which to close the oil inlet. Very simple. Complete with under Sprayer and Agitator.

List..... $18.00
Retail..... 14.50

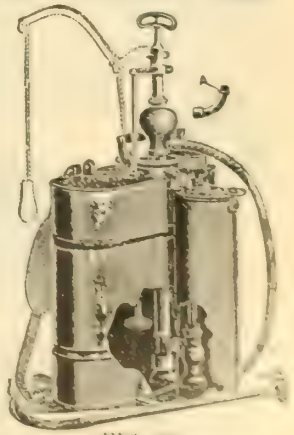


FIG.

HOW AND WHEN TO SPRAY.—SEE PAGE 127.

POWDER GUNS and SPRAYERS

THE FOUNTAIN SPRAY PUMP.

Fig. 599.

FIGURE 599.

Accompanying illustrations Nos. 332 and 333, Figure 599, represent the FOUNTAIN KNAPSACK, which is constructed of first-quality galvanized iron, with round corners, built precisely the same as the regular Knapsack with REMOVABLE STRAINER and tight lid. It is fitted with adjustable straps so as to be carried on the back, or it can be carried by bail as shown by dotted lines.

It is tapped at both right and left hand lower corners and fitted with brass female ends to which hose is attached, either one or two strings of which may be used at one time. When one hose only is used the other opening is closed with a metal plug furnished for that purpose.

The HOSE and BULB are made of the best white rubber and wired at end.

The VALVES are made of brass and will not corrode; have large openings which permit the free flow of water and shut-off instantly when under pressure.

The NOZZLE is made of brass, nickel-plated; has fifty small openings, and throws a spray six feet wide at a distance of twelve feet.

The pump is operated by grasping the bulb in the hand and compressing it, which causes a spray to be thrown any distance from three to fifteen feet, as desired; on relaxing the pressure on the bulb it expands, refilling instantly, when the same operation can be repeated. To shut off flow of water entirely, use valve on hose for that purpose.

We furnish this hose and fixtures to be attached to a barrel or tank placed on a wagon. This is desirable when spraying large fields of cotton or potatoes.

CAUTION.—ALWAYS MIX PARIS GREEN OR LONDON PURPLE IN A SEPARATE VESSEL, FORMING INTO A PASTE BEFORE ADDING THE WATER. In this way everything will be dissolved and will not need to be agitated.

	Retail Price.	List Price.
No. 332, Figure 599, Fountain Knapsack Spray Pump, with one tube, rubber bulb and rose	$3.00	$5.00
No. 333, Figure 599, Fountain Knapsack Spray Pump, with two tubes, rubber bulbs and roses, to work with both hands	4.25	7.00
Extra tube, rubber bulb and rose	1.25	2.00

Knapsack Spray Pumps.

FIGURE 547.

Fig. 547.

The tank holds five gallons, is fitted with lid and strainer, which can be removed.

This pump has lever, large air chamber, ball valves, solid plunger and agitator.

It is so arranged that no water can drip on the operator. The pump can be easily removed and is fitted with handle so as the operator can use it the same as our tank with bucket pump.

	Retail.	List.
No. 330, Figure 547, Fitted with five feet ½ inch hose, pipe extension and Bordeaux spray nozzle, which can be graduated from a fine mist to a solid stream, or shut off entirely, price	$6.00	$10.00

Any other nozzle furnished with these pumps when ordered.

The Perfect Knapsack Spray Pump. Fig. 547.

Is it identically the same as 330, with the exception that the tank is constructed entirely of copper.

	Retail.	List.
No. 331, Figure 547, complete with hose, stop cock, pipe extension, and Bordeaux nozzle, price	$9.00	$16.00

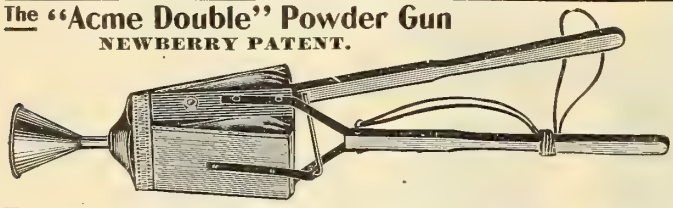
A first-class outfit at a reasonable price.

No. 336, Spray Nozzles, Etc.

	Retail.	List.
THE BORDEAUX, Price	$ .60	$1.00
THE VERMOREL, Price	.60	1.00
Combination Nozzles and Hose Coupling	15 cents.	

The "Acme Double" Powder Gun

NEWBERRY PATENT.



This gun (or blower) is the highest development of the original Powder Gun idea. It is the invention of a practical farmer, familiar with a farmer's needs.

It is but a little heavier than our "Acme," and will apply a continuous blast of dry poison to any plant.

Don't stop. Hills or drills will make no difference with you. Walk right along. You can apply any desired quantity to each plant as its needs require.

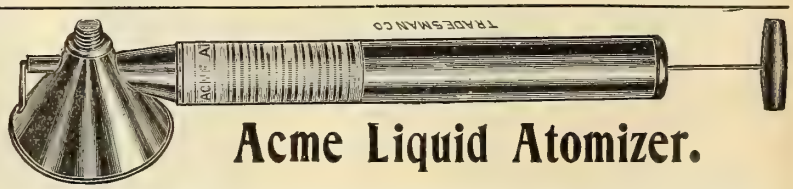
All parts of the "Acme Double" Powder Gun are thoroughly protected. There are no adjustments to make, no loose parts to get out of order.

The material is the best. The "Acme Double" Powder Gun is finished in keeping with the original "Acme" and is furnished with the same detachable elbow and spreader. **Price $1.75.**

The Acme Plaster Sifter.

Price 25 cents.

This a most convenient and serviceable little tool, and at the price will prove a good investment. It handles land plaster and any similiar substance without the necessity of covering hands or clothing with the poisoned powder. We furnish a false bottom which prevents anything clogging the agitator.



Acme Liquid Atomizer.

For spraying Paris Green and other insecticides on potato plants, shrubs, small trees, house plants, live stock and poultry. A great labor-saver on every farm, and in every garden, barn, greenhouse, orchard and hennery. It will apply the finest possible spray on any object desired, and exterminate any kind of insect life. Will not corrode. Easily filled, easily emptied. One can full will poison bugs on 600 to 800 hills of potatoes. By actual test we find this to be a most desirable article to spray Turpentine for the destruction of Moths. Quite a number are now in use for this purpose with the most satisfactory results.

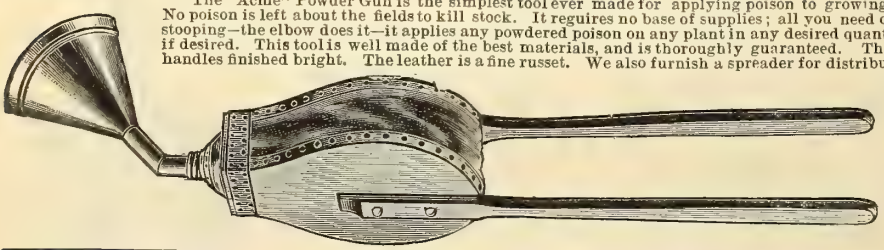
PRICE.

Tin Atomizers.....**50** cents. Galvanized.....**55** cents. Brass Tank.....**70** cents.

THE ACME POWDER GUN

(Dry Powder Blower).

The "Acme" Powder Gun is the simplest tool ever made for applying poison to growing crops. It is entirely independent of water or plaster. No poison is left about the fields to kill stock. It requires no base of supplies; all you need carry is a can of dry insecticide and the gun. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity, any time of the day. The elbow may be detached if desired. This tool is well made of the best materials, and is thoroughly guaranteed. The bellows sides are painted a bright vermilion, and the handles finished bright. The leather is a fine russet. We also furnish a spreader for distributing the blast. **Price 75 cents.**



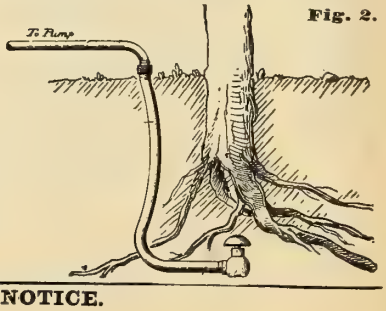
PERFECTION DOUBLE ATOMIZER

More solution can be thrown with this than with a single Atomizer; covers more space.

Price, Tin Double Sprayers, **55** cts. Galvanized Double, **60** cts. Brass Tank Double, **85** cts.

The Goilbart Root Sprayer.

Fig. 2.



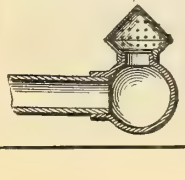


Fig. 3.

For Fruit Growers, Nurseymen and Gardners.

The annexed cuts represents the sprayer ready for use. The water, insecticide or fertilizing ingredient being applied to the root with an ordinary spray pump which can be done in three minutes. By its use the growth of a young tree can be more than doubled in one season and will produce fruit one year earlier. The difference in yield of fruit in one season will be sufficient to more than counterbalance the increased cost of labor.

Price **20** cents each. Special price in quantites.

The Nozzle used on the Root Spray is seen in Figure 3.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Water Carts or Trucks, and Combinations.

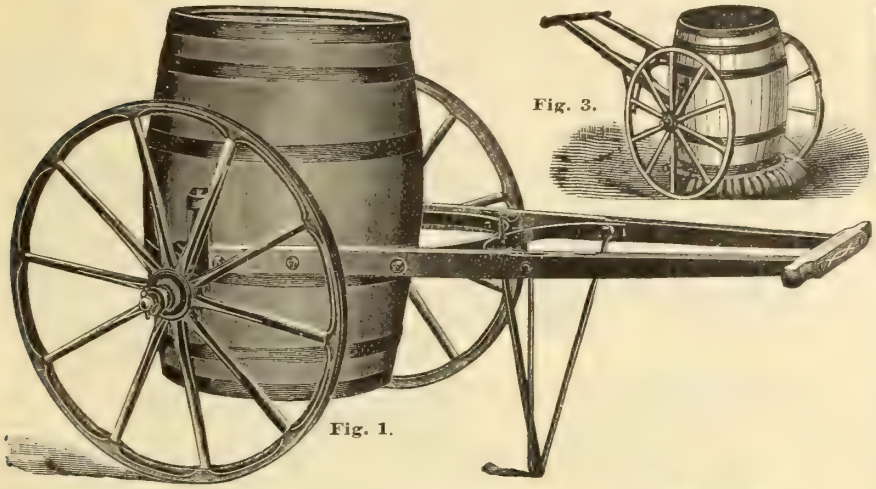


Fig. 1.

Fig. 3.

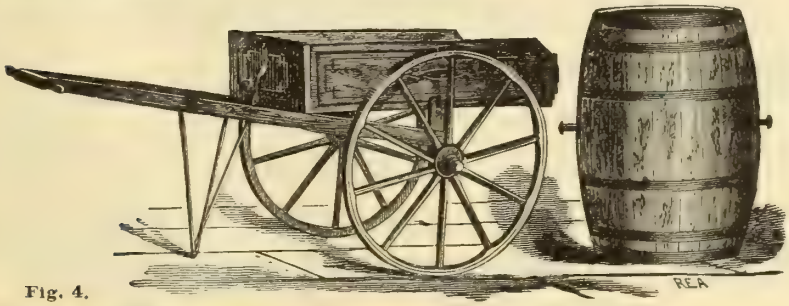


Fig. 4.

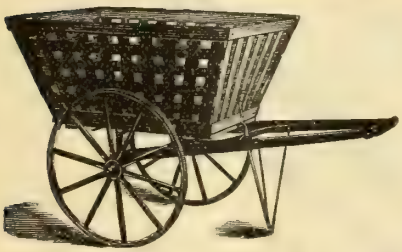


Fig. 2.

Fig. 6.

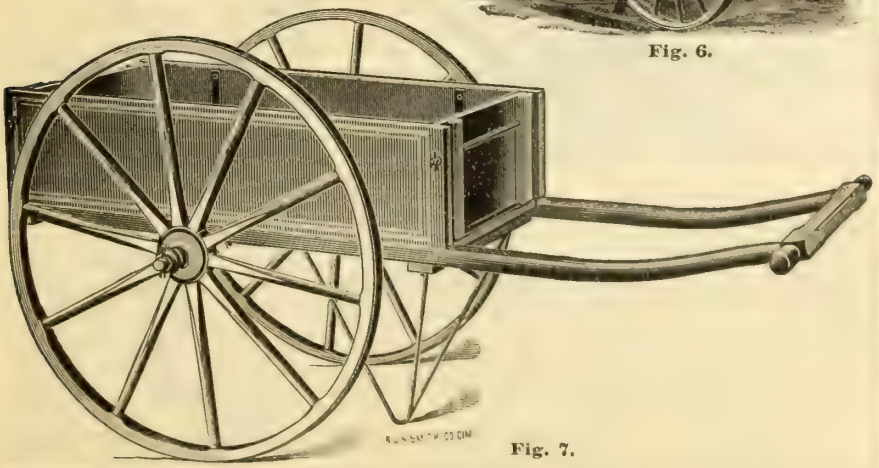


Fig. 7.

Fig. 1 shows Truck and Barrel
Fig. 2 shows Truck with Leaf Rack Attachment
Fig. 3 shows Truck and Barrel with Sprinkler Attachment.
Fig. 4 shows Truck and Box
Fig. 5. shows Gem Spray Pump.

PRICE LIST.

	List.	Retail.
Water Truck	$10.00	$5.50
Water Truck and Barrel	13.60	7.50
Water Truck and Box	13.60	7.50
Water Truck, Barrel and Box	17.20	9.50
Gem Spray Pump Attachment	9.00	5.00
Sprinkling Attachment	4.00	2.50
Leaf Racks	7.00	4.00
New Barrel	3.60	2.25
Box	3.60	2.25

Trunnions, per pair, **50c.**

For 2½ in tires on trucks, add to the above price Retail, **$1.00.** List, **$1.50.**

For 4 in. tires on trucks add to the above price Retail, **$1.50.** List, **$2.00.**

EXTRA TRUCK WHEELS.

	List.	Retail.
Regular Tire	$3.00	$2.00
2½ inch Tire	4.00	2.50
4 inch Tire	4.50	2.75

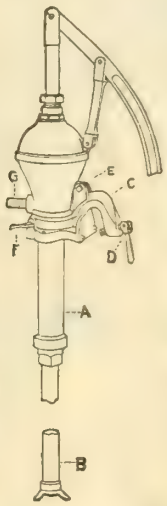


Fig. 5.
Gem Spray Pump.

Fig. 1.— This Fig. represents our Barrel Cart, to which can be attached the "Gem" Brass Spray Pump (Fig 5. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc

The Barrel Cart and Pump may be ordered separately and arranged together to suit the purchaser. The Barrel Cart may be wheeled about when filled with water, to supply sprinkling cans for watering flowers and vegetable gardens. When the running gear or truck is ordered without barrel, the trunnions may easily be fastened to any good water-tight barrel by any person with ordinary mechanical ability.

Key to Detail Engraving of Gem Spray Pump.

A—Brass Cylinder of Pump.
B—Suction Pipe and Strainer
C—Main part of Barrel Clamp
D—Wrench or Clamping Screw.
E—Bolt holding Clamp to Pump
F—Thumb Screw holding Pump in Barrel Clamp.
G—Discharge of Pump.

The Miller Junior Sprinkling Carts.

Fig. 6 —This Cart is adapted for use in cemeteries, parks, private grounds, flower and truck gardens, and can be used for sprinkling or for carrying water. The barrel holds 160 gallons, and is mounted on two wheels with 4 inch tires. The wheels are 4 feet 6 inches center to center, and 4 feet 6 inches high. The axle is of solid steel, 1¾ inches thick. The Sprinklers are brass, and controlled by the driver, he being able to throw to the right or left or both sides at the same time, and the Sprinklers are so arranged that the spray can be made very wide or very narrow and of any desired width. The water issues from an adjustable slot, and will pass such small obstructions as may be found in manure water. The barrel is fitted with a faucet, to which ¾ inch garden hose can be attached. The cart is in every way first-class

Prices: { $75.00 ..... f. o. b. factory.
{ $85.00 ..... f. o. b. Baltimore.

(Prices for Street Sprinklers furnished on application.)

Baltimore Push Cart.

Fig. 7. —For the merchant, printer, farmer, etc to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, p ers' forms, farmers tools and light implements It is never out of place, and always ready to pick short notice. They are nicely finished; higher w better ironed and altogether superior to its kind on the market. There is now mand for these carts, but notwithstandi placed the price low

Prices: { Retail ..... $
{ List 13.50

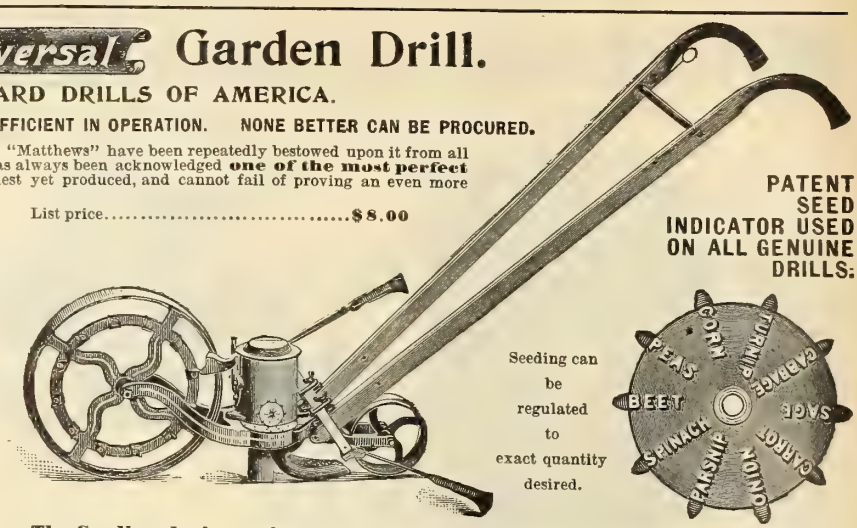
Matthews' New Universal Garden Drill.

ONE OF THE STANDARD DRILLS OF AMERICA.

SIMPLE IN CONSTRUCTION. NEAT IN DESIGN. EFFICIENT IN OPERATION. NONE BETTER CAN BE PROCURED.

Medals and testimonials confirming the superiority of the "Matthews" have been repeatedly bestowed upon it from all quarters, and as it has been improved from time to time it has always been acknowledged **one of the most perfect drills made.** The present form is the neatest and simplest yet produced, and cannot fail of proving an even more popular modification of this reliable drill.

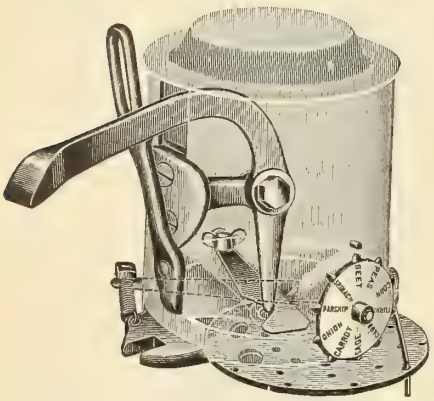
Our retail price.....$ 6.50 List price.....$ 8.00



PATENT SEED INDICATOR USED ON ALL GENUINE DRILLS:

Seeding can be regulated to exact quantity desired.

The Seeding Device.



The Seeding device employed on all Matthews' Seeders is set forth in the accompanying illustration, showing transparently the solid wall of the seed box The indicator, which is also shown above, has the names of the various seeds plainly marked upon it. The **dial** has a separate hole for each kind of seed, which registers in the **centre** of the hole in bottom of seed box. The hole in the dial may be gauged to a nicety by means of the **regulator**, held by a thumb screw. To lead the seed to the central opening there is provided a **corrugated** and shouldered bottom, which admits of dropping any quantity of seed, even to a **single paper**. The feed is practically a force feed. No other device ever met with the success of the **agitator**. Principally for dropping all the small garden seeds. The seed is not bruised or damaged by the **agitator**. The **manual cut off** indicated in the illustration by the dotted lines, with its spiral spring connection, is worked from the handle by a wire, and the flow of seed may thus be instantly checked. No seed need be wasted in turning rows.

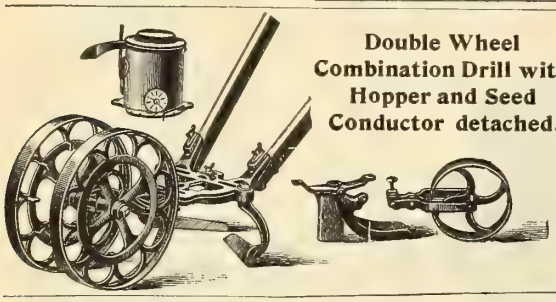
Matthews New Universal Model Hill and Drill Seeder.

This implement is the same in style and working qualities as the one just described, but is arranged so as to drop the seed continuously in drills or at distance of 4, 8, 12, 16, 24 and 48 inches apart. The adjustment from drills to hills is made by one screw in attaching a brass cut-off to the agitator The distance apart is regulated by the number of cogs on the driving wheel against which the agitator strikes. The seed cannot drop except when the hole in the bottom of seed box is opened by the agitator striking a cog on the wheel, and it immediately closes again as the agitator drops. This saves seed, as no more need be dropped at a time than is desired, no matter what the distance may be. There are no parts to wear or get out of order. If this implement is wanted be sure and order the "Hill and Drill Seeder," as the regular garden drill cannot be fitted with the attachments Our retail price, **$7.25** List price, **$9.00**.

The manufacturers of this line do not make a Hill and Drill Seeder with cultivating attachments, and we would recommend as **far preferable**, one of the above separate drills and a separate single wheel hoe complete, with **all** the attachments, for which our retail price covering the two separate implements is **only, $11.75**.

Matthews' New Universal Combination Drill.

WITH HOE, CULTIVATOR, PLOW AND RAKE ATTACHMENTS.



Double Wheel Combination Drill with Hopper and Seed Conductor detached.

Can be used as a

ONE WHEEL or TWO WHEEL { Seeder, Hoe, Rake. } { Cultivator, Plow, Marker }

Loosening one thumb screw removes all Seeder Attachments, leaving frame clear for Cultivating Attachments.

Retail Price, $ 8.50
List Price, : 10.50

This is not only a desirable combination of the Garden Drill already described with the New Universal Cultivating attachment, but it has the advantage of having either a double wheel or single wheel implement at will, the change from one to the other being readily made.

The use of a one wheel seed sower insures the nicer work, as if two wheels are used an obstruction under one wheel or the other has a tendency to crook the rows, and this makes after cultivation harder. The operator always has a one wheel seeder under full control, and in addition the single wheel follows in the mark made when planting the previous row and presents a sight to keep the rows straight.

The two wheels are desirable, however, when used as a cultivator or wheel hoe, as in this way the rows of young plants may be straddled and the cultivating done on both sides of the row at one passing. The special feature of this implement is that when used in straddle row cultivation there is no projection below the frame to interfere with plants. The seeding and covering attachments can be readily removed when the implement is used for cultivating. It is not necessary to remove the seed box, but it can be taken off if desired. The combination is one which cannot fail of recommending itself to all. The attachments are—

ONE (1) PAIR HOES. FIVE (5) CULTIVATOR TEETH. ONE (1) PAIR RAKES. ONE (1) PAIR PLOWS.

Extracts from Prof. S. B. Green's report in Bulletin No. 38 of Minnesota Experiment Station, as published in the "Market Garden" for March, 1895.

"During the past year I have made a special study of garden implements best adapted for garden use. The (New Universal) Combination Drill and Cultivator is arranged to use either one or two wheels The indicator is very simple in construction and easily handled The agitator is sure to keep the seed moving through constantly. The depth of sowing can easily be regulated The marker is well adapted for giving a clean track for successive rows, and is easily changed to different widths. A convenient cut-off is provided to use when turning at the ends of the rows to prevent loss of seed The change from the drill to the cultivator can be made very quickly. For working the soil it has hoes, plows, rakes and cultivator teeth of good shape and size It can be used successfully to open or close furrows The machine is adapted to working on both sides of a single row with two wheels or between the rows. The manufacturers recommend for market gardeners instead of this combined implement, separate implements to save the time of changes.

"The New Universal hand double wheel hoe, cultivator and plow is an implement of recent introduction having all the latest improvements. It contains a handy feature in the adjustable arch by which the depth of the cultivator teeth may be regulated. It may be used to work between the rows or to straddle one row."

Our Retail Price, **$8.50**. List Price, **$10.50**.

Send for Special Implement Catalogue Containing full description of all New Universal and Matthews Tools.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

New Universal Hand Double Wheel Hoe, Cultivator Plow and Rake.

The special recommendation is the Adjustable Arch, by which not only the depth of work can be gauged, but which, by an ingenious device, enables the teeth to be pitched at any angle desired.

It can be pushed straight ahead, but better results are obtained by using it same as a scuffle hoe, with successive strokes of length to suit the nature of soil and crop.

TO WORK BOTH SIDES of a row at one passing, the attachments can be set to suit width of crop to be cultivated, keeping row midway between wheels.

THE HOE BLADES can be set to turn in or out, as desired by the operator.

THE CULTIVATOR TEETH.—Four are furnished with each. Two cultivator teeth can be used at desired width to mark out rows.

THE PLOWS.—For furrowing they can be set close together and turn outward.

FOR COVERING, set to width desired, and turn inward.

THE RAKES.—For fine cultivation and other uses of an ordinary rake. They can be set angling or straight across.

The depth can be regulated by adjusting wheel arms in the three holes provided on each side of Arch. The depth can also be regulated by pitching the Arch by means of the Arch Brace and the Thumb Bolt, where it connects, to lower Handle Brace.

THE LEAF GUARDS are to prevent wheels from injuring large, spreading foliage.

THE ATTACHMENTS ARE

1 Pair Hoes.	1 Pair Narrow Cultivators.
1 Pair Plows.	1 Pair Wide Cultivators.
1 Pair Rakes.	1 Pair Vine Guards.

Specially designed for working both sides of the row at one passing.

Our Retail Price, - - - - - - - - $5.25
List Price, - - - - - - - - - 6.50

New Universal Expansion Double Wheel Hoe, Cultivator Rake and Plow.

This Implement has the same attachments as the Double Wheel Hoe already described, but has Steel Arch and Rocking Adjustment same as HIGH ARCH HOE illustrated below.

Retail Price, $6.50 **List Price, $7.50**

New Universal High Arch Expansion Wheel Hoe, Cultivator, Rake and Plow.

In this new implement the manufacturers have practically reproduced dimensions and purpose of their first attempt at a "Straddle-Row" Weeder. The wheels are 12 inches in diameter, and the arch high enough to cultivate over plants 20 inches or more in height. The Double Wheel Hoe meets all requirements, but we here present if possible a more complete inplement of larger size.

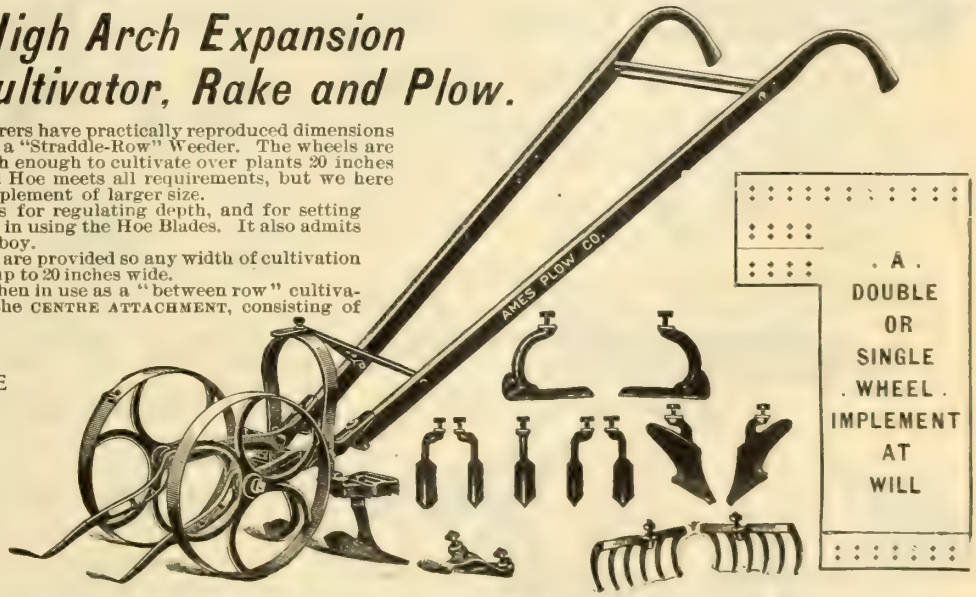
The Adjustable Arch affords means for regulating depth, and for setting pitch of teeth, a very valuable feature in using the Hoe Blades. It also admits of use of implement by either man or boy.

Expansion Pads or Tooth Holders, are provided so any width of cultivation may be attained, from the narrowest up to 20 inches wide.

One wheel is preferred by many when in use as a "between row" cultivator, and for this purpose is provided the CENTRE ATTACHMENT, consisting of Wheel Scraper and Tooth Holder.

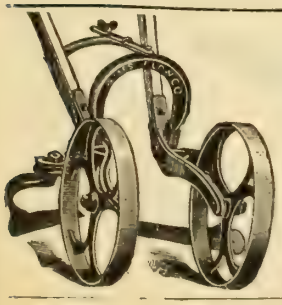
. . The Attachments . .
for HIGH ARCH WHEEL HOE
are :

1 Pair Long Bladed Hoes.
1 Pair Short Bladed Hoes.
1 Pair Narrow Cultivators.
1 Pair Wide Cultivators.
1 Centre Cultivator.
1 Pair Plows.
1 Pair Rakes.
1 Pair Vine Guards.
1 Centre Tooth Holder.



. A . DOUBLE OR SINGLE . WHEEL . IMPLEMENT AT WILL

Retail Price, $8.00 **List Price, $9.50** **With Hoe Blades only, Retail, $5.25** **List, $6.00.**



New Universal Hand Double Wheel Hoe,

WITH HOE BLADES ONLY.

As seen in the cut, this is the same implement as above, but without the extra attachments for those who have no occasion for more than the blade attachments.

Retail Price, $3.50 **List Price, $4.25**

EXPANSION DOUBLE WHEEL HOE, with Hoe Blades only, same as above, except it has Steel Arch..... Retail Price, $4.50 List Price, $5.25

SEND FOR SPECIAL IMPLEMENT CATALOGUE CONTAINING FULL DESCRIPTION OF ALL NEW UNIVERSAL AND MATTHEWS TOOLS.

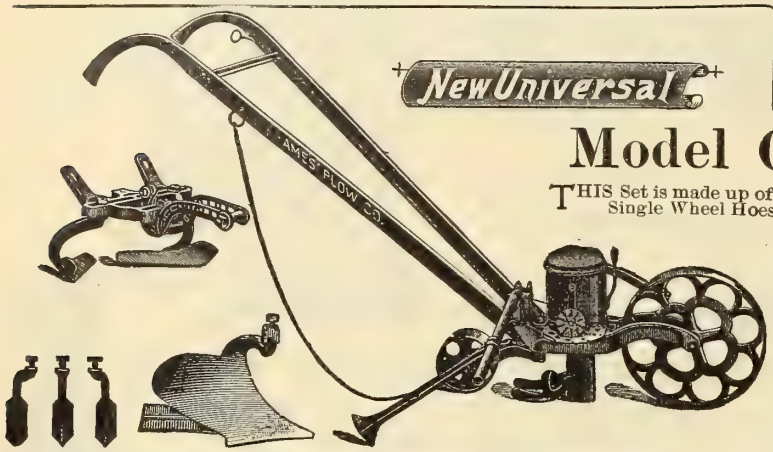
ALL KINDS OF MACHINERY REPAIRED.

New Universal Model ....Gem Seed Drill.

This has been perfected to meet the demand for a low-priced drill. This is not only accomplished in this design, but we here offer a drill with all the essential qualities of the Matthews principle, even to embodying seed dial and indicator, from exactly same patterns as those used on the larger and more expensive drills. It also has a new seed regulator for gauging the exact flow of seed required; seed cut-off for stopping the flow while turning at the ends of rows, and marker adjuster fo rmarking the rows at any desired distance apart. We do not recommend it for use instead of the larger drills, but we are sure that all in want of such a drill as we represent will find this to be a very valuable implement.

THE MARKER is of a less expensive pattern, but such as is generally employed on other drills for which a higher price is asked. It may be set for the various distances and is thrown from side to side, being pivoted between the handles.

Retail Price, $5.00 **List Price, $6.25**



New Universal Model Gem Gardening Set.

THIS Set is made up of one of the Gem Drills already described and one of the No. 2 Single Wheel Hoes, with Cultivator and Plow Attachments.

The extremely low price is made by furnishing the one wheel, and one pair of handles for use with both implements. The change is readily made, as one bolt attaches the wheel, and the handles are held by thumb bolts. A more convenient set certainly cannot be obtained, and the price at which it is offered is one that may be afforded by anyone who plants a kitchen garden.

The Attachments are as per Illustration :

1 Pair Hoes. 1 Pair Cultivators. 1 Centre Cultivator.
1 Large Plow. 1 Marker.

We furnish all the pieces shown in illustration when this set is ordered.

Retail Price, $8.00 **List Price, $10.00**

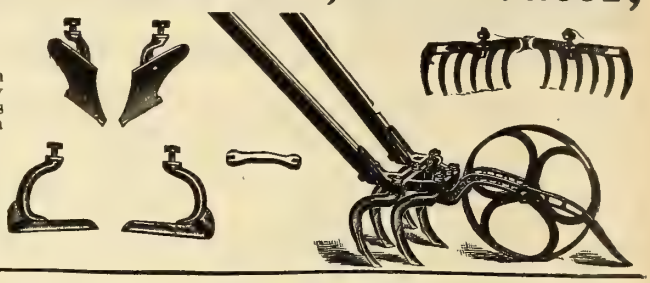
New Universal Hand Single Wheel Hoe, Cultivator, ...Plow and Rake.

AS with the Double Wheel Hoe described, this can be used either between or astride the rows, although it is really intended for between row cultivation. For straddle cultivation the wheel can be set to one side, so as to bring the row of young plants under centre of frame. Later cultivation must be done between rows.

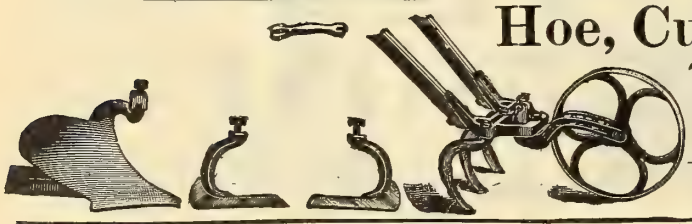
The Attachments are :

1 Pair Hoes. 5 Cultivator Teeth. 1 Pair Plows.
1 Pair Rakes. 1 Vine or Leaf Guard.

Retail Price, $4.50 **List Price, $5.75**



New Universal "Flier" Hand Single Wheel Hoe, Cultivator and Plow No. 2.



This Implement is same as our regular Single Wheel Hoe, except that at this price fewer attachments are furnished. They are:

1 Pair Hoes.
3 Cultivator Teeth.
1 Large Plow.

——If this style is wanted, be sure and order the "FLIER."——

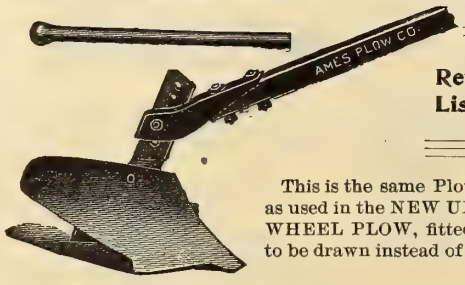
Retail Price, $4.00 **List Price, $5.00**

New Universal Hand Wheel Plow.

This can be used to prepare the ground, to furrow out, to cover and to cultivate. The mould board is of steel, polished and tempered.

Retail Price, $2.00
List Price, 2.50

New Universal Draw Plow.



Retail Price, $1.50
List Price, - - 2.00

This is the same Plow, and is standard, as used in the NEW UNIVERSAL HAND WHEEL PLOW, fitted with long handle, to be drawn instead of being pushed.

Send for Special Implement Catalogue containing Full Description of all New Universal and Matthews Tools.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore. Established 1860.

"IRON AGE" WHEEL HOES AND DRILLS.

The No. 1 "Iron Age" Double Wheel Hoe

Price, $6.00.

No. 3 "IRON AGE" DOUBLE WHEEL HOE.—Same tool as shown in cut above, but with hoes only, **$3.50.** A Seed Drill Attachment for sowing in rows only or sowing both in rows and hills can be added, **$3.00** and **$4.00,** respectively. When applied the tool is identical with the **No. 4** or **No. 6 "Iron Age Combined Tools,** depending upon which seed attachment is applied.

In cultivating onions, beets, turnips, radishes, etc., it is invaluable—saves hours of hard labor, and does the work better than several men could do it in the same time. One great advantage which this double wheel hoe possesses is that it can be made into a practical single wheel hoe in a moment's time. An axle is sent with every double wheel hoe for this purpose. The wheels are 16 inches high, enabling the wheel hoe to run easy and without yielding to the depressions of the soil. The frame being made of tubing, coupled to malleable castings, gives great strength, together with lightness. All the tools shown in the cut go with the machine.

New Model Seed Drill.

THE Seeder Adjustment in the New Model is accomplished in a very simple and effective manner by use of a slide with a pear-shaped opening passing under the bottom of seed reservoir, which is provided with a perforation of similar shape, in a reversed position. This size can be instantly adjusted to size indicated by index, or to a hair's breadth variation. This index or indicator is plain, convenient and reliable. It is placed in open sight, and can be quickly adjusted to the slightest variation desired. The names of the principal seeds are plainly shown on the index. The flow of seed can be instantly stopped by a swinging cut-off, conveniently operated by a cord and ring on handle. This cut-off prevents all loss of seed at end of rows, and its swinging or gravity form will be found far preferable to one that slides under, as it cannot be jammed by the falling seed. Each drill is crated and carefully packed for shipment. Packed weight, about 40 pounds.

PRICE, - - - $6.50.

No. 4 Iron Age Combined Double Wheel Hoe and Seed Drill.

Price, $9.00.

Combined in this tool is a Seed Drill, a Double Wheel Hoe (see cut above) and a Single Wheel Hoe. As a seed drill this tool sows in drills with perfect accuracy all the seeds varying in size from celery to corn. The change from a seed drill to a wheel hoe is made by simply detaching the seed hopper, with its frame, coverers, wheel, etc.—loosening two bolts does it—and applying the cultivating tools. This tool is light, strong and easy running.

The above tool fitted with Hill Dropping Device furnished as the No. 6 Combined Tool for **$1.00** additional, making the price **$10.00.**

For all gardeners and truckers who require a Seed Drill of large seed capacity we offer the No. 8 "Iron Age" Hill and Drill Seeder. The **wheel** is made of steel, 15 inches high. The **hopper** is low, therefore the delivery of the seed is close to the ground. The agitator is a revolving brush, which absolutely does not injure the seed. The Seeder will sow in continuous row or drop in hills at 4, 6, 8, 12 or 24 in. apart.

No. 8 "Iron Age" Hill and Drill Seeder.

Price, $9.00.

No. 9 "Iron Age" Single Wheel Hoe

PRICE, $4.50.

For the kitchen garden we consider our No. 9 "Iron Age" Single Wheel Hoe, with its many meritorious points, as a very valuable tool.

It plows, rakes, hoes, cultivates and hills.

No. 10. - Furnished with side hoes, only **$2.75.**

The No. 22 "Iron Age" Combined Fertilizer Distributer, Hill and Drill Seeder sows Fertilizer in two streams and places the seed sown either in hills or drills between the fertilizer—an ideal way of planting just where it will do the greatest good. This tool without the seed-sowing device is used for applying quick-acting fertilizers to growing crops, forcing them to a quicker and more thrifty growth.

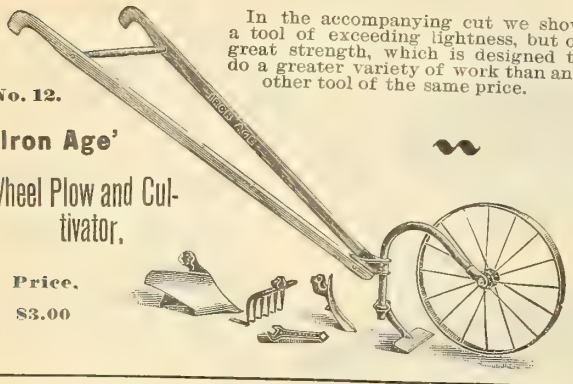
No. 23 without the Seed Attachment **$12.00.**

No. 22 "Iron Age" Combined Fertilizer Distributer, Hill and Drill Seeder

PRICE, $16.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

"Iron Age" Wheel Hoes and Seed Drills--Continued.



No. 12.

'Iron Age'

Wheel Plow and Cultivator.

Price, $3.00

In the accompanying cut we show a tool of exceeding lightness, but of great strength, which is designed to do a greater variety of work than any other tool of the same price.

The No. 18 "Iron Age" Seed Drill is without doubt one of the lightest, strongest and most reliable Seed Drills on the market.

Price, $6.00

No. 16—Same tool as shown below, fitted with hill dropping device, **$7.00.**

No. 18

Iron Age Seed Drill

Price, $6.00

No. 17—Same tool with the addition of the cultivating tool,

$8.00

No. 15—Combined tool to drop in hill or sow in rows,

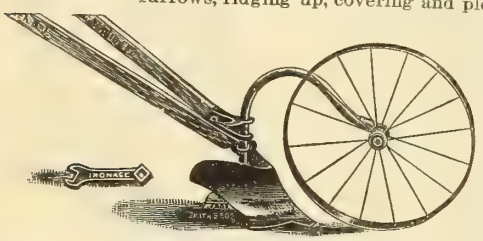
$9.00

JEWEL DOUBLE WHEEL HOE, CULTIVATOR AND PLOW COMBINED.—So well known, so thoroughly introduced and so entirely satisfactory that further description is useless. Price, **$5.00.**

No. 11 Iron Age Wheel Plow

PRICE, $2.00.

A tool needed in every kitchen garden for breaking ground, opening furrows, ridging up, covering and plowing.

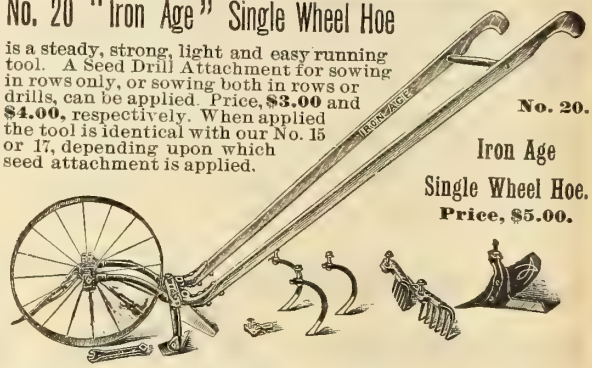


Also an excellent tool for poultry men in turning under the droppings in poultry yards.

So light it can be carried around the garden and used as readily as a common hoe.

No. 20 "Iron Age" Single Wheel Hoe

is a steady, strong, light and easy running tool. A Seed Drill Attachment for sowing in rows only, or sowing both in rows or drills, can be applied. Price, **$3.00** and **$4.00,** respectively. When applied the tool is identical with our No. 15 or 17, depending upon which seed attachment is applied.



No. 20.

Iron Age

Single Wheel Hoe.

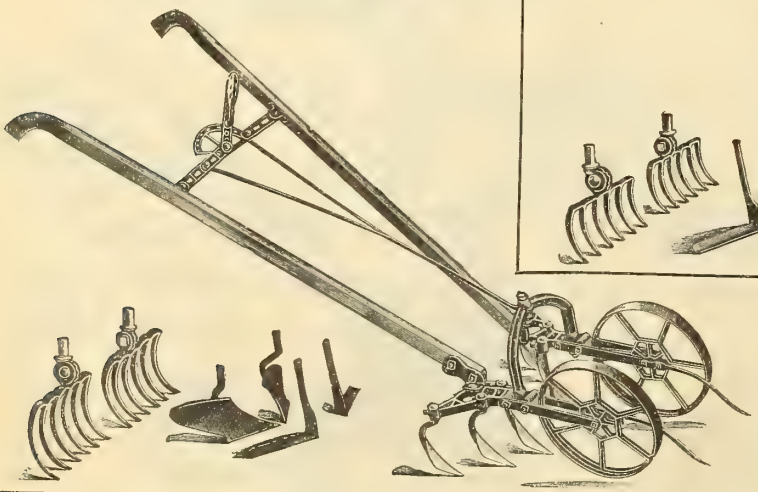
Price, $5.00.

THE BALTIMORE

Double Wheel Cultivator.

This Cultivator has a new device for expanding and contracting, which permits the operator to set the machine instantly to any desired width. It is furnished with various attachments used for harrowing, furrowing and covering.

Price, without Rakes.... ..... **$5.00**
Price, with Rakes..... **$5.40**



THE BALTIMORE

Single Wheel Garden Cultivator.

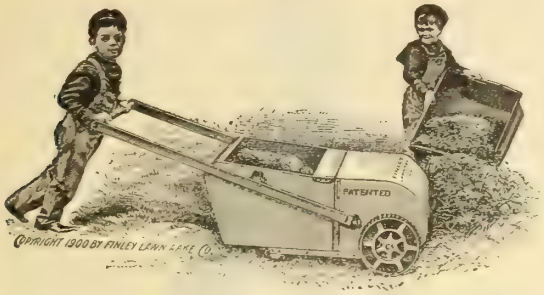
THIS Cultivator has an entirely new arrangement of frame which is strong, neat and compact, and with the aid of the different attachments, can be used for hilling, furrowing or covering. The hilling attachments or weed cutters can be arranged to hoe in or out and to or from the plants and can be set at any angle desired. Wheel and handles are both adjustable.

Price, without Rakes, **$3.70**
Price, with Rakes, **$4.10**

THE ATTACHMENTS SHOWN IN THE ANNEXED CUTS OF THE BALTIMORE CULTIVATORS, EXCEPT THE RAKES, ARE FURNISHED WITH EACH IMPLEMENT AT THE PRICES NAMED.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

The Finley Rotary Lawn Rake.



THE cuts show the general appearance and construction of this Rake. The principle is not unlike that of a carpet sweeper, with steel teeth in the blades where the brush comes in the sweeper.

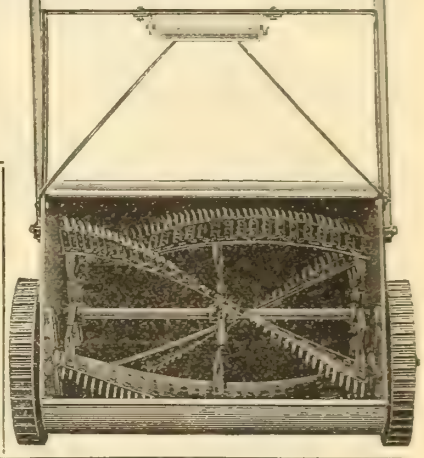
The movement of these blades being rotary, causes a blast or suction in revolving, and the loose grass, leaves, twigs and **any loose litter** are forced back into the basket which, when filled, is easily removed, so that the contents may be dumped, ready to be carried away. It can be easily adjusted to fit any work by simply turning two nuts.

Nothing escapes it. After the lawn is cut and then gone over with this rake it's as clean as a carpet and looks beautiful. It is so easy to push that a child, as shown in the cut, can run it. Simple and strong in construction, durable, with no intricate parts, it is the very acme of perfection as a Rake, and will, once generally introduced, be as indispensable as the lawn-mower has become. You will find the lawn which has been cared for by our Rake will not only look much handsomer, but will steadily improve in condition, as the surface will always be clean, and the grass is cultivated by the teeth, and a much thicker sod is produced by these conditions.

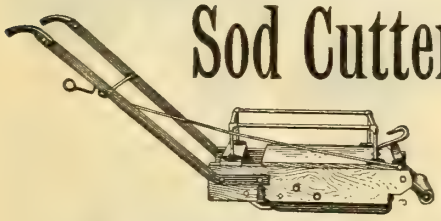
PRICE = = = = $12.00.

Cut of the Finley Lawn Rake Inverted,
Showing Its Construction.

It will save your lawn. A hand rake will pass over a great deal of short grass and small litter, but this Rake works evenly and gathers up the grass, etc. That's what a rake is intended for. One great feature it possesses is that the rotary motion leaves the grass **standing up straight**, and any creeping weeds or crab grass are thereby raised up, and on a second cut by the mower are destroyed. Any gardener knows what a hard matter it is to get at these creepers without destroying the grass, and, as most of these obnoxious grasses and weeds are only anuals, this machine will do it for him.



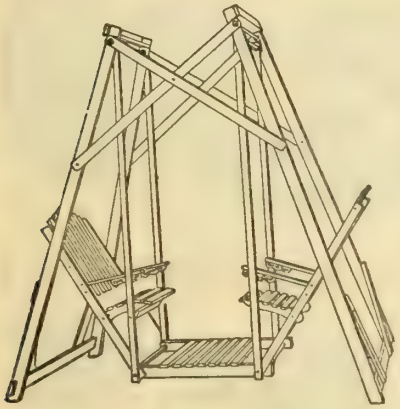
Sod Cutter



PRICE, $25.00.

HAS A REVERSIBLE KNIFE. The sides and bottom are made of one piece of steel, so that there are no openings that can get choked. A roller just over the knife regulates the thickness of the sod from one to two inches. The front roller works automatically. By bearing down on the handles and lifting the lever it swings under the machine and takes the weight until you are ready to cut again. In cutting, the two rollers take the weight, thus preventing any friction or injury to the grass. The Guide Shoe is reversible, and can be changed in a moment. The back is left open so that the knife can be cleaned without turning over the machine.

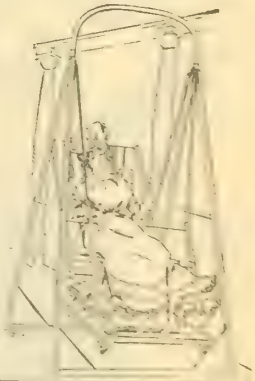
The Arctic Lawn Swing



We can furnish a cheap swing if same is wanted, but the quality of material and workmanship, of necessity, will not compare with the above, which is the best swing on the market.

THE ARCTIC SWINGING CHAIR,

THE LATEST DESIGN FOR A SWINGING CHAIR YET PRODUCED.

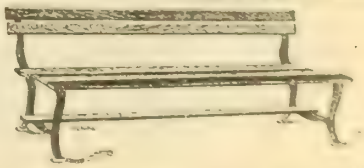


IT occupies on the porch floor a space about six feet long by three feet wide and about six feet high. It is made of the most substantial material, the best of dry hard wood, with steel arms and braces, and arch of steel tubing. It is provided with a foot rest, adjustable for children or adults, is nicely painted and varnished and has durable canvas back. It weighs about forty-five pounds, folds up easily like a jack-knife, and is readily moved from place to place. It is better and cooler than any hammock, and occupies less space. It is shipped entirely set up and ready for use by the simple adjustment of the thumb nuts and two bolts.

PRICE = = = $4.00.

THE ARCTIC SWING affords the most comfortable lounging place you can find, and as the backs of the chairs are adjustable, they can be set up as straight or incline at as great an angle as you wish. It is built of the best hardwood lumber, with a carrying capacity of two adults, but is strong enough to carry six children. Handsomely painted in deep red and nicely varnished. There is nothing more conducive to an afternoon siesta or a pleasant chat with your best girl than one of these swings under a shady tree.

Price, Article No. 2, $6.00.



The most comfortable Lawn Seat is illustrated herewith. It is attractive and gives plenty of room. Just the thing for Parks, Porches, Hotels, Picnic Grounds, Cemeteries, etc. Painted bright red and varnished. Weight No. 6, sixty five pounds.

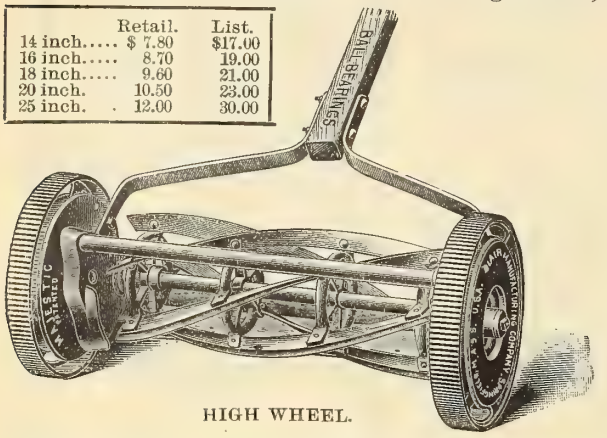
PRICE, 75 CENTS PER FOOT.

We carry in stock 4 and 5 feet lengths only.

"DRUID" BALL BEARING LAWN MOWER

With Four Revolving Knives, Driving Wheels 10 Inches in Diameter.

	Retail.	List.
14 inch.....	$ 7.80	$17.00
16 inch.....	8.70	19.00
18 inch.....	9.60	21.00
20 inch.	10.50	23.00
25 inch.	12.00	30.00



HIGH WHEEL.

The superiority of BALL BEARINGS is now universally conceded, combining EASE OF DRAFT with the least possible FRICTION.

The only requirement being that they must be thoroughly made and perfectly hardened. In the "**DRUID**" Lawn Mower we offer a machine that in every respect is equal in workmanship to the highest grade bicycle.

The Revolving Knives run on twenty-eight ¼ in. cast steel Balls, 14 at each end. See annexed sectional cut.

The Ball Races and Adjusting Cones are also made from cast steel, and perfectly hardened and ground. As a result, the Mower runs easily, remains in adjustment, and does better work than is possible with parallel bearings which tend to wear out of true and allow "lost motion" to the knives.

The use of Ball Bearings in a Lawn Mower makes necessary a rigid frame.

The frame of the "**DRUID**" is constructed with the greatest possible care, and is warranted to hold the cutting edges true and in alignment, though subjected to the hardest use.

In short, the "**DRUID**" **LAWN MOWER** is designed for a machine of higher grade than has heretofore been attempted, and is offered as the perfection of Lawn Mowing Machines.

A glance at the illustration herewith given will be understood by the most unskilled operator of a lawn mower, and it will be seen that only a common screw driver is needed to keep the machine in perfect adjustment in both the bearings and cutting edges, the two important features of any lawn mower.

The bearings in our Mowers are made of the best material obtainable, and as perfect as in the highest grade bicycle.

One thing we have proved, and it is that the cheap, low-priced "stove bolt" Mowers now being sold cannot be equipped with ball-bearings. A frame made up of castings with sand cored holes, and assembled with bolts will not hold the balls close to the bearing cones long enough to mow the smallest lawn, and for this reason such a mower must be a complete failure.

The frame of every Lawn Mower we make is constructed on mechanical principles, every hole being machined to gauge, and the entire frame assembled with the nicety of the most perfect machine.

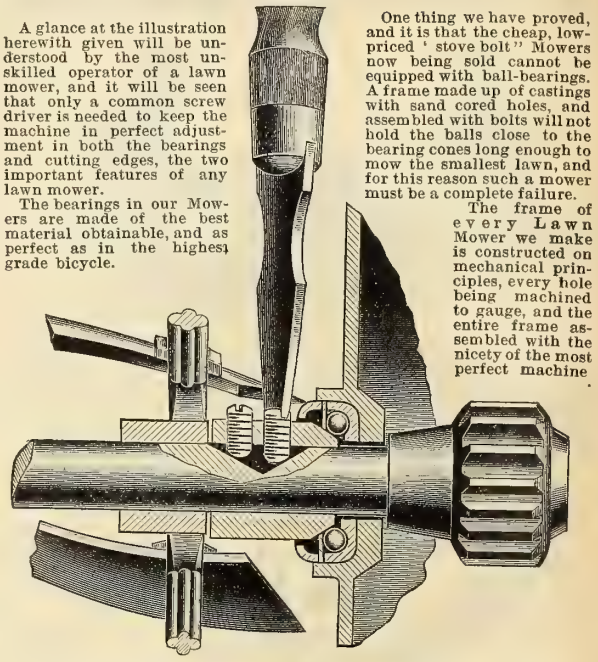
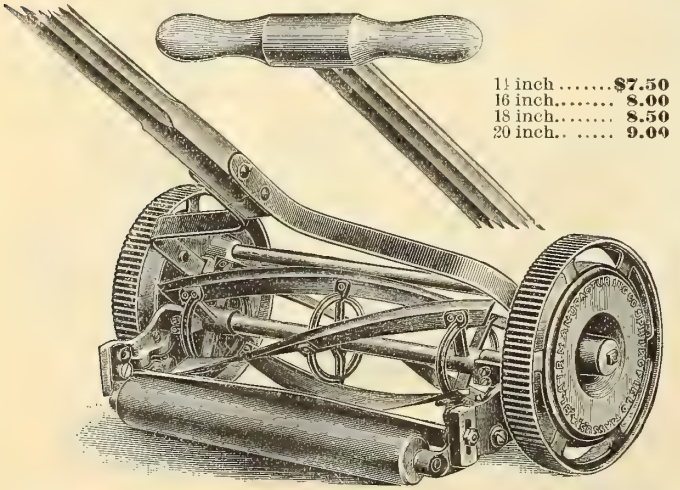


Illustration shows manner of adjusting the Ball-Bearings to the Druid line of Lawn Mowers.

THE BALTIMORE HIGH-WHEEL MOWER.

Driving-Wheels, 9 Inches Diameter. Cutting Cylinder, 6 Inches Diameter, with Four Knives.

For extreme EASE OF OPERATION, SIMPLICITY, DURABILITY, DESIGN AND FINISH **THE BALTIMORE HIGH-WHEEL MOWER** is unsurpassed.



14 inch	**$7.50**
16 inch	**8.00**
18 inch	**8.50**
20 inch	**9.00**

All of the essential features in best lawn mower construction have been incorporated in the **BALTIMORE.** It has the Patent Rocker Adjusting Journals for the cutting cylinder, compensating for wear upon all sides of the shaft; patent double-bearing double-toothed Rachet and Pawl connection, which positively avoid all friction while the Mower is in operation, and thereby causing it to run much easier than other machines, (with one exception, the "DRUID"). It is made of first-class material and workmanship, and will do the most perfect work.

MARYLAND HIGH-WHEEL MOWER.

The cutter-bar and boxes for reel shaft are ADJUSTABLE to COMPENSATE FOR WEAR. Bronze boxing for reel shafts. Adjustment of handle is an important feature, being arranged at lower end, so that it is instantly adjustable for a child or grown person. The reel and cutter-bar knives are made of crucible steel.

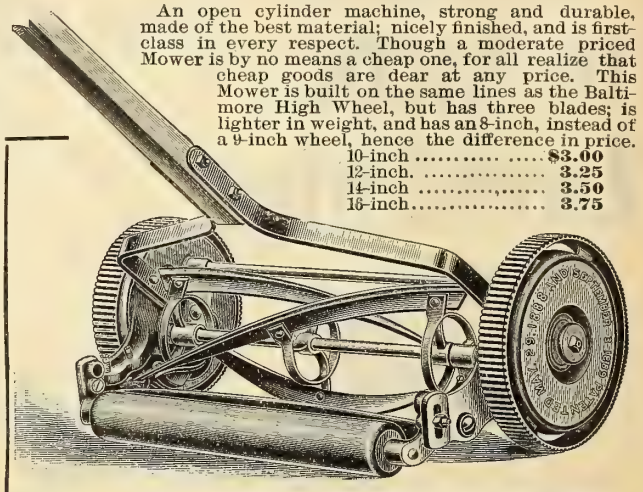
Retail price: 14 inch....**$5.00.** 16 inch....**$5.50.** 18-inch....**$6.00.**

Baltimore Regular Mower. No. 1.

8 in. Wheels. 3 Blades.

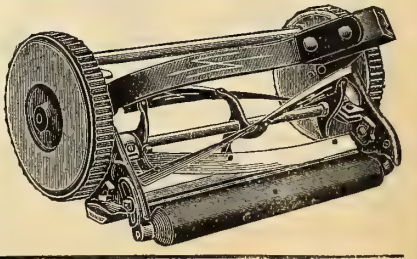
An open cylinder machine, strong and durable, made of the best material; nicely finished, and is first-class in every respect. Though a moderate priced Mower is by no means a cheap one, for all realize that cheap goods are dear at any price. This Mower is built on the same lines as the Baltimore High Wheel, but has three blades; is lighter in weight, and has an 8-inch, instead of a 9-inch wheel, hence the difference in price.

10-inch	**$3.00**
12-inch	**3.25**
14-inch	**3.50**
16-inch	**3.75**



Maryland Regular Mowers, No. 1

For the price this is one of the best machines on the market, strong, well made; cutter true as solid steel; no cast iron parts. In case of breakage, parts can be duplicated.



12 inch	**$2.50**
14 inch	**2.75**
16 inch	**3.00**
18 inch	**3.25**

EFFICIENT MECHANICS TO REPAIR LAWN MOWERS.

LAWN MOWERS—CONTINUED.

PENNSYLVANIA HIGH WHEEL MOWER.

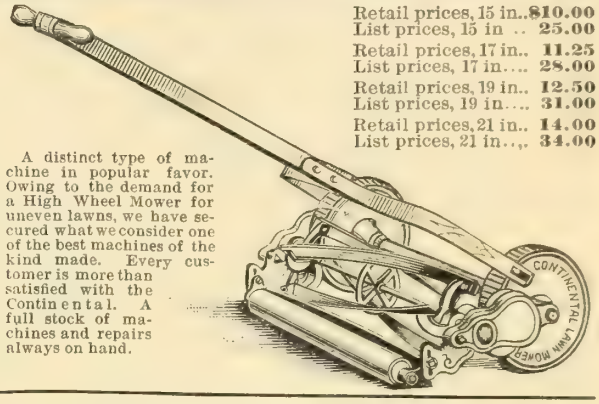
Retail prices,	15 in.	$9.50	17 in.	$10.75	19 in.	$11.75	21 in. $13.50
List prices,	15 in.	25.00	17 in.	28.00	19 in.	31.00	21 in. 34.00

PHILADELPHIA LAWN MOWER.

Style C.

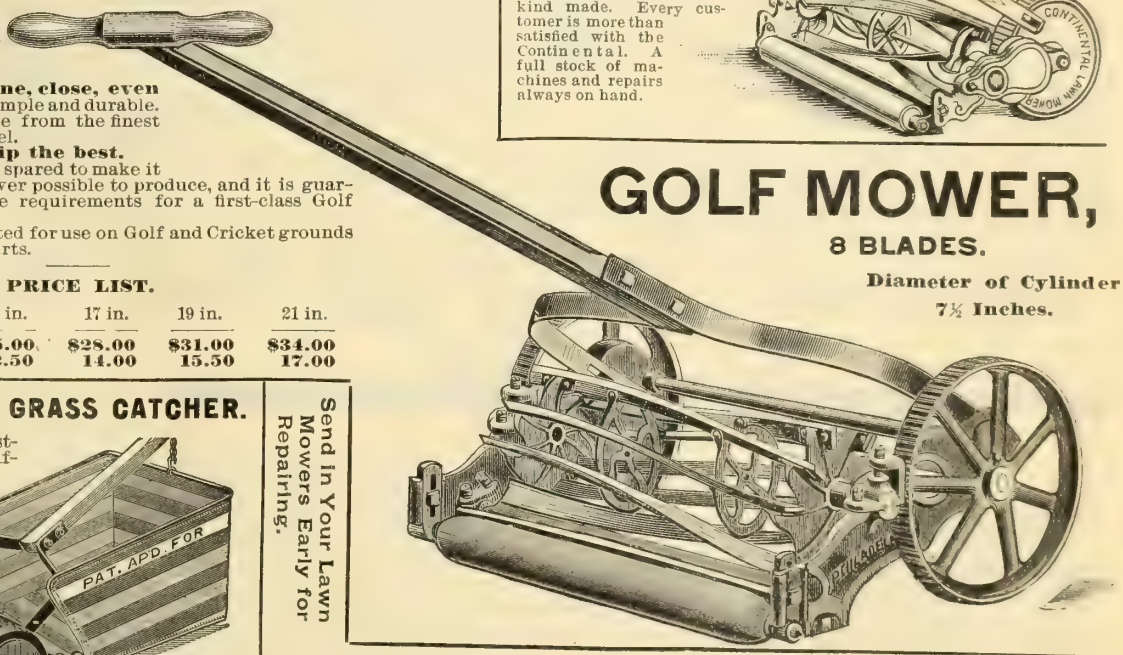
	Medium High Wheel.		Open Wiper.		Four Blades.		
Retail prices,	14 in.	$6.80	16 in.	$ 7.60	18 in.	$ 8.40	20 in. $ 9.20
List prices,	14 in.	17.00	16 in.	19.00	18 in.	21.00	20 in. 23.00

CONTINENTAL HIGH WHEEL MOWER.



Retail prices, 15 in..	$10.00
List prices, 15 in ..	25.00
Retail prices, 17 in..	11.25
List prices, 17 in....	28.00
Retail prices, 19 in..	12.50
List prices, 19 in....	31.00
Retail prices, 21 in..	14.00
List prices, 21 in..,.	34.00

A distinct type of machine in popular favor. Owing to the demand for a High Wheel Mower for uneven lawns, we have secured what we consider one of the best machines of the kind made. Every customer is more than satisfied with the Continental. A full stock of machines and repairs always on hand.



This is a 10-Inch Wheel, Eight-Blade MOWER, made on correct principles to insure a **fine, close, even cut,** light in draft, simple and durable.

The blades are made from the finest oil tempered cast steel.

Its workmanship the best.

No pains have been spared to make it the most perfect Mower possible to produce, and it is guaranteed to fill all the requirements for a first-class Golf Mower.

It is specially adapted for use on Golf and Cricket grounds and Lawn Tennis courts.

GOLF MOWER,

8 BLADES.

Diameter of Cylinder 7½ Inches.

PRICE LIST.

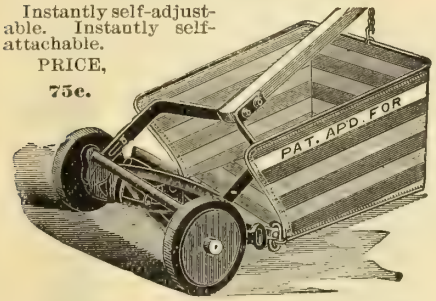
	15 in.	17 in.	19 in.	21 in.
List price. ...	$25.00	$28.00	$31.00	$34.00
Retail price...	12.50	14.00	15.50	17.00

THE CANVAS GRASS CATCHER.

Instantly self-adjustable. Instantly self-attachable.

PRICE,

75c.



Send in Your Lawn Mowers Early for Repairing.

UNIVERSAL GRASS CATCHER.

A Grass Catcher that will fit any mower. Canvas body, blacked sheet steel bottom. Two sizes—No. 1 will fit 10, 12, 14 and 16 inch mower, and No. 2 will fit 16, 18 and 20 inch.

Price, **75c.**

Combination Hand and Pony Mower.

Price, $20.00.

THE PATENTED HORSE ATTACHMENT of the Mower is its great feature. This attachment is adjusted to the Mower in such a manner that, in operation, the Mower is held to the ground, and the disagreeable "tipping up" of the rear of the Mower, which is a serious objection to many machines, is impossible. The draft of the Mower is just the same as when operated with the handle.

Diameter of traction wheels, ten inches. Weight, ninety pounds. Best material and workmanship throughout.

HORSE BOOTS.

For Use on Lawn.

For those who desire a well-kept lawn. Made of leather, with heavy leather bottoms and will fit any horse's feet. Price, per set, **$8.00.**

"THE BALTIMORE" HORSE LAWN MOWER

EFFICIENT MECHANICS TO REPAIR LAWN MOWERS.

	Retail Price.	List Price.
25 inch Machine, with Draft Rod	$40.00	$ 65.00
30 inch Machine, with Draft Rod	60.00	105.00
30 inch Machine, shafts and seat	65.00	110.00
35 inch Machine, with shafts and seat	77.50	125.00

Special Discount for Cash.

The Baltimore Horse Lawn Mower is guaranteed to be equal to any machine made; in order its good points it is necessary to see it at work on the lawn, where it performs in a most sa

The Old Style Philadelphia Horse Lawn Mower, with Draft Rod.

These Mowers are being used extensively in different sections of the country, and are giving entire satisfaction, in the public parks and large lawns.

Retail price, 30 in. **$70.00.** List price, 30 in. **$100.00**

Cahoon Patent Broad-Cast Seed Sower.

FOR SEWING CLOVER, TIMOTHY, MILLET, OATS, WHEAT, HEMP, BARLEY, RYE, RICE, BUCKWHEAT, ETC.
A MODEL FOR ACCURACY AND DURABILITY.

Price, - - $3.50

Sows from 4 to 8 acres per hour at an ordinary walking gait, throwing wheat about 40 feet wide. A saving of four-fifths of the labor and one-third of the seed is effected by the use of this machine, and a person entirely unused to sowing by hand can use it with perfect success.

To Sow Thicker or Thinner Without Changing the Slide.—Having set the index to the desired quantity per acre—taking the average of the field—the operator can easily sow a little thicker upon those places where the soil is richer, by taking shorter steps and thus not going so fast, and upon the poorer spots of ground it can be sown thinner by taking longer steps, and consequently passing more rapidly forward.

About Sowing in the Wind.—Any one familiar with the use of the machine can sow satisfactorily in a much stronger wind than will admit of sowing well by hand; but as the ordinary work of a day can easily be done with the Sower in two or three hours, that time may be chosen early in the morning or late in the evening, when it is usually calm or nearly so.

For Sowing in Standing Corn the machine will be found of the greatest utility—nothing can ever equal it for this purpose—but will not sow as wide as on fallow ground, in consequence of the obstruction which the corn offers to the seed. A broader lap is therefore required, by making the passages nearer together. (See directions.)

The breadth of the cast will be according to the weight of the seed.
- Wheat and Rye, 30 to 36 feet.
- Barley, 27 to 33 feet.
- Hemp, 27 to 30 feet.
- Oats, 21 to 25 feet.
- Clover, Millet, Hungarian Seed, 20 to 24 feet.
- Timothy, 15 to 18 feet.

DIRECTIONS FOR GAUGING THE MACHINE.

The large gate is to be used when sowing grain and the small gate in the larger one for grass seed only. First, close the slide or gate tight, then fix the lower edge of the index point against the scale of inches on the slide for the different seeds as follows:

For Wheat and Rye.—To sow two bushels to the acre, at 1 inch. To sow one and a half bushels to the acre, at ¾ of an inch.

For Barley.—To sow two bushels to the acre, at 1 inch. To sow one and one-eighth bushels to the acre, at ¾ of an inch.

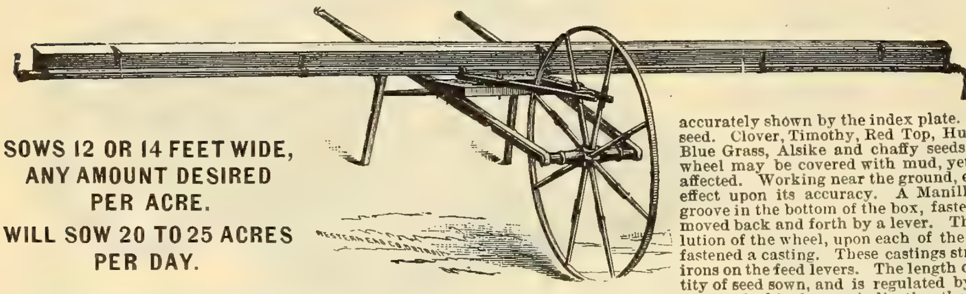
For Hemp.—To sow one bushel to the acre, at ½ an inch. To sow one and a quarter bushels to the acre, at ⅝ of an inch.

For Oats.—To sow two bushels to the acre, at 1½ inches. To sow one and a half bushels to the acre, at 1¼ inches.

When ready to sow, first commence turning, and with the left hand raise the slide until the nib on the slide comes against the index point. Be careful to walk and turn, as above directed. To close the slide, do it with a quick pressure of the left hand. To sow wheat or Rye in standing corn, two bushels to the acre, set the index at ⅝ of an inch, and sow five or six rows at a time, according as they are wide or narrow.

For Grass Seed.—To sow one peck of grass seed to the acre, raise, the small gate ⅜ of an inch; half a bushel, ⅝ of an inch.

Thompson's Clover and Grass Seeder.



SOWS 12 OR 14 FEET WIDE, ANY AMOUNT DESIRED PER ACRE.

WILL SOW 20 TO 25 ACRES PER DAY.

This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order. It is strong, yet weighs but 40 pounds. Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate. You place the pin, the machine measures the seed. Clover, Timothy, Red Top, Hungarian, Millet, Flax, Orchard Grass, Fancy Blue Grass, Alsike and chaffy seeds are alike sown by it. It cannot clog. The wheel may be covered with mud, yet its working will not be affected. Working near the ground, even strong winds have no effect upon its accuracy. A Manilla rope passes through a groove in the bottom of the box, fastened at the ends to a rod moved back and forth by a lever. This is operated by the revolution of the wheel, upon each of the eight spokes of which is fastened a casting. These castings strike alternately V-shaped irons on the feed levers. The length of stroke governs the quantity of seed sown, and is regulated by the pin, which forms a fulcrum at any distance desired from the driving point. The plate for this pin if accurately marked in figures, indicating the quantity of seed sown per acre. By use of a thumb screw the lever can be thrown out of connection, when all sowing stops, the feed rope covering the holes in the bottom of the hopper, through which, when at work, it forces the seed. Manilla rope is used because it is better than wire or any substitute. It does not wear the groove, bruise the seed, or fail in its work—wire rope will. Being scorched and chemically treated, our rope is weather proof. It is provided with an iron wedge at one end of the feed rod, so that it may be loosened when not in use.

No. 1—Complete Clover and Grass Seeder, the most popular style.......... **$6.50**
No. 2—Complete Seeder, with Double Hopper for Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover... **8.00**

The Cyclone Hand Broad-Cast Seed Sower

This Seeder is accurate, strong, light and durable. The best medium price machine of its kind on the market.

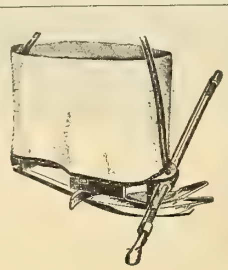
Price **$2.00**

Chicago Seeder.

A good Seeder, at a very low price. This is the most satisfactory Bow Seeder made.
Price.... **$1.50**

Champion Jr. Seeder.

A MODERATE PRICE MACHINE.



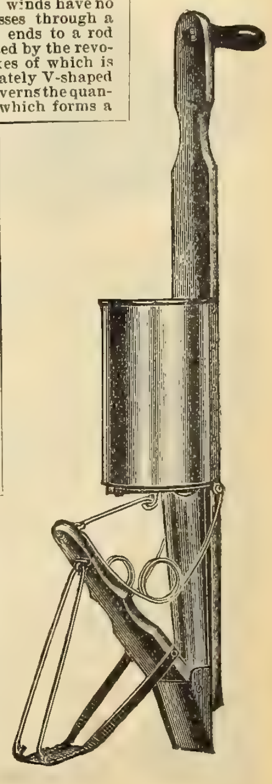
The accompanying illustration shows our **Champion Jr. Seeder,** a moderate price machine.

GUARANTEED equal to any other make on the market.

Price **$1.00**

—— THE ——

Gordon Automatic Hand Corn Planter



ITS ROTARY SLIDE has a motion TWO ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube. This motion is positive. It breaks up all bridging, and fills the pocket uniformly—it counts the kernels for each drop.

THE IRON STRIPPER will not wear out nor break. It prevents an over-dose of corn, and will not crack a kernel. The entire dropping device is made of iron, held together by 3 bolts. All parts are easily accessible and readily adjusted

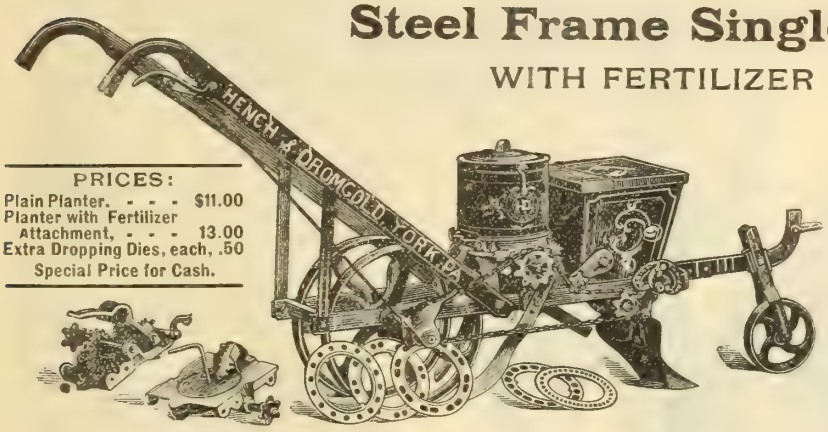
THE HOPPER IS IN LINE WITH THE CENTRE, there is a double-coil spring on each side, and the planter hangs well in the hand. The material is all the best. The Planter is finished with a selected hardwood frame, finished bright, a brilliantly painted hopper, and all parts varnished.

Price **$1.50**

HENCH & DROMGOLD'S CORN PLANTERS.

Steel Frame Single Row Planter,

WITH FERTILIZER ATTACHMENT.



PRICES:

Plain Planter, - - - $11.00
Planter with Fertilizer Attachment, - - - 13.00
Extra Dropping Dies, each, .50
Special Price for Cash.

Fig. 28 B.

Made in three styles—first, as shown in cut, with double wheel in rear Fig. 28 B; secondly, with concave wheel in rear, Fig. 27; thirdly, with concave wheel in rear and runner in front, Fig. 28. All can be furnished with or without fertilizer attachment

The Corn-Dropping Arrangement is very simple and positive in action.

The Fertilizer Sower has an agitator which prevents the fertilizer from arching in the box, and will sow regularly any quantity from 100 to 400 lbs. per acre.

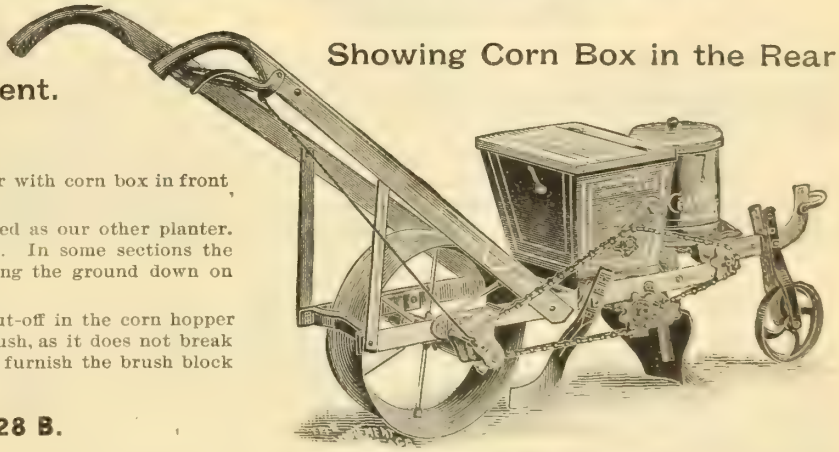
Four Rings or dropping dies are furnished with each planter, two with small and two with large holes, dropping one grain at a place and equal distance apart, and two with large and two with small holes for dropping two grains in a hill.

Three Chain Wheels are furnished with plain planter and four with fertilizer. The six-point chain wheel drops one grain 13 inches, or two grains 26 inches apart. The seven-point drops one grain 15 inches, or two grains 30 inches apart. The eight point wheel drops one grain 17 inches, or two grains 31 inches apart. The nine-point wheel drops one grain 19 inches, or two grains 38 inches apart. We can also furnish rings for planting Peas Beans, Ensilage, Corn or any kind of seeds, and by using the different chain wheels can plant any desired amount.

SINGLE ROW CORN PLANTER,

With Fertilizer Attachment.

Showing Corn Box in the Rear.



The cut represents our Single Row Corn Planter with corn box in front, and is sold largely in some sections.

It has the same dropping device and fertilizer feed as our other planter. We furnish them with double or cancave wheel. In some sections the concave wheel is preferable for rolling or pressing the ground down on the corn.

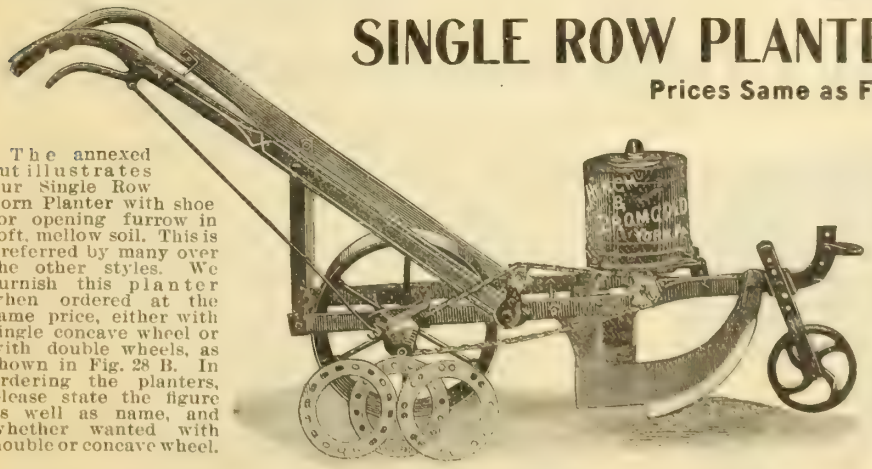
All the planters we make have the spring trip cut-off in the corn hopper instead of the brush. This is preferable to the brush, as it does not break any corn, and is more durable. We, however, can furnish the brush block with any of the planters if so ordered.

Prices Same as Fig. 28 B.

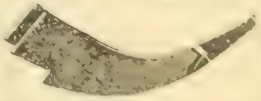
Fig. 27.

SINGLE ROW PLANTER WITH SHOE.

Prices Same as Fig. 28 B.



The annexed cut illustrates our Single Row Corn Planter with shoe for opening furrow in soft, mellow soil. This is preferred by many over the other styles. We furnish this planter when ordered at the same price, either with single concave wheel or with double wheels, as shown in Fig. 28 B. In ordering the planters, please state the figure as well as name, and whether wanted with double or concave wheel.



We are Headquarters for Corn Planter Runners made to fit the following named styles Farmer's Favorite, Evans, Hamilton, Barlow Richmond Champion, Hench & Dromgold Keystone, Jr., U. S., and Challenge. In ordering Planter Runners **always state**, as near as possible, the **year** Planter was made whether **steel** or **wood** frame; or, better still, a **diagram** showing position of **hole** and **style** of bend.

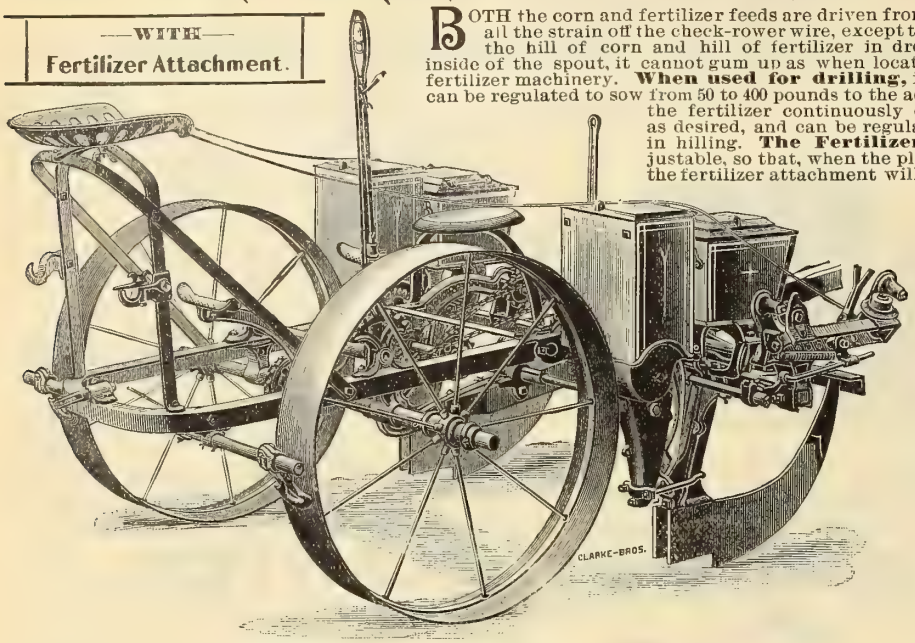
Price, $3.50 per Pair.

Fig. 28.

ALL KINDS OF MACHINERY REPAIRED.

THE L. C. EVANS
Steel Frame Combined Drill and Check-Rower Corn Planter.

—WITH—
Fertilizer Attachment.



BOTH the corn and fertilizer feeds are driven from the back axle of the machine, thus taking all the strain off the check-rower wire, except that the wire operates the valves and deposits the hill of corn and hill of fertilizer in dropping The fertilizer feed being located inside of the spout, it cannot gum up as when located in the hopper, as is usually the case in fertilizer machinery. **When used for drilling,** it will sow the fertilizer continuously, and can be regulated to sow from 50 to 400 pounds to the acre. **When used for hilling,** it will sow the fertilizer continuously or at intervals with the corn in the hills, as desired, and can be regulated to sow from 50 to 400 pounds to the acre in hilling. **The Fertilizer Attachment** is made automatically adjustable, so that, when the planter is changed from one width to another, the fertilizer attachment will conform to the width of the planter, thus avoiding the annoyance of making any changes. **The whole combination** works almost as easily and with as much precision as clock-work. **The machine is no experiment.**

Using the machine as a drill. It can be changed to drop 10, 12, 14 or 16 inches apart by changing the chain to the different sprocket wheels on the shaft. It

Will plant in hills from two to six grains by changing the chain to different sprockets dropping from 2 to 3, 3 to 4, 4 to 5 or 5 to 6 grains in a hill as desired.

Marker shifted without getting off the Planter. We have an eye on the hammer-strap bolt to which the marker rope is attached, and the marker can be placed on either side of the Planter without the driver leaving the seat.

No jar on the horses' necks. We use a coil spring pressure connection to the Planter tongue, which relieves the horses' necks of the weight and removes the force of the jar occasioned by rough, uneven ground. It makes the Planter flexible and allows the runners to go down into uneven places and dead furrows, thus making the Planter cover more perfectly.

Novel connection to couple front to back. The arms connecting to the boxes on the planter-beam are slotted so that the Planter has a perfect floating motion, and is adapted to all conditions of the ground. This feature is found on no other combination Planter.

The machine is adjustable in width, being so arranged that it will plant 3 ft., 3 ft. 2 in., 3 ft. 4 in., 3 ft. 6 in., 3 ft. 8 in. or 3 ft 10 in. apart for the Eastern trade. For Western trade, 3 ft. 6 in. 3 ft. 8 in., 3 ft. 10 in. The arrangement for changing it is very simple, as it is accomplished by simply loosening a few bolts. Wheels will run on or off the rows as desired.

Plain Planter.....**$30.00** Planter with fertilizer attachment.....**$40.00** Check-Rowers with 80 rods of wire... **$10.00**

SPECIAL PRICES FOR CASH.

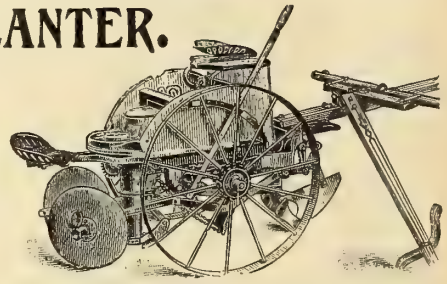
THE "IMPROVED-ROBBINS" POTATO PLANTER.

Price of Planter with Fertilizer Attachment, $60.00,

SPECIAL DISCOUNT FOR CASH.

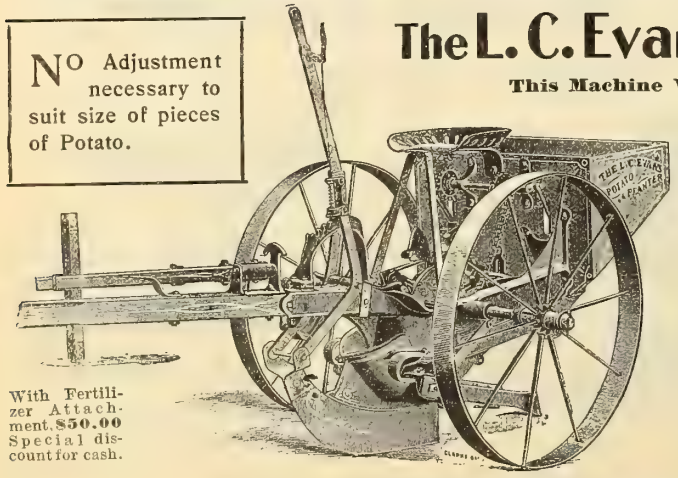
It will successfully and regularly drop the pieces of potato regardless of size. By a simple device the fertilizer is divided and prevented from coming in direct contact with the potatoes. The seed is covered lightly by means of a pair of discs. The speed of the dropper is regulated by a simple change of sprocket wheels, those sent with Planter dropping a distance of 12, 14, 15½, 17, 18½ or 20 inches. The capacity of fertilizer distributor is up to a ton per acre, dependin. on condition of fertilizer; by a simple adjustment of gate or change of sprocket wheel the amount sown is quickly and easily regulated.

Prices of Attachments for Planter: { Pea, Bean and Corn Sower Attachment. **$5.00**
Leveler Attachment..... ..... **1.25**



WILL PLANT FROM 4 TO 7 ACRES PER DAY.

NO Adjustment necessary to suit size of pieces of Potato.



With Fertilizer Attachment, **$50.00** Special discount for cash.

The L. C. Evans Potato Planter, No. 55

This Machine Will Plant from Seven to Ten Acres Per Day.

It is a force feed, and is positive in its action, and its operation is controlled by the machine instead of by the size of the seed potatoes.

TO CHANGE THE DISTANCES APART IN DROPPING.—The machine will drop the potatoes in drills 10, 12, 14, 16, 18, 20, 28 or 36 inches apart. The change for the different distances apart is accomplished by putting on more or fewer picker arms.

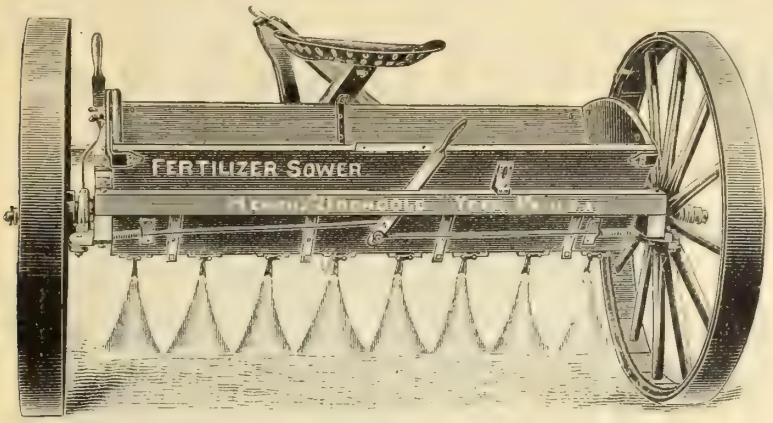
VIBRATING FEED HOPPER BOTTOM. The bottom of the hopper is constructed with two feeding channels, which vibrate from the top of the hopper down to the bottom of the concaves, thus assuring an even and steady flow of potatoes.

A NOVEL MARKER.—It is positive in operation, is constructed on the principles of the hand lever, has a spring catch which holds it in an upright position when turning around, is readly operated by the hand catch, and cannot fall when turning on hilly ground. The marker is arranged with a sliding marker-head, so that the machine will plant the rows any distance apart desired.

WIDTH OF THE MACHINE.—The machine is 36 inches wide from the centre of one drive wheel to the centre of the other. **Disc coverers furnished when desired.**

FERTILIZER ATTACHMENT.—This machine can be furnished with a Fertilizer Attachment when desired. It is made on the same principle as those on the Evans Corn Planters.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



HENCH & DROMGOLD'S Low Down Broadcast

Fertilizer, Lime and Ash Distributer.

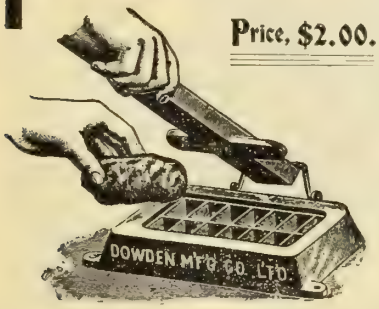
THIS Fertilizer Distributer will sow, evenly, Fertilizer, Paris Green, etc. The machine is easily operated The lever on the rear throws the machine in and out of gear. The lever on the left side changes the feed to a small quantity for sowing, even Paris Green, and will sow as much as 8,000 lbs. of fertilizer per acre.

Price: No. 1, Distributer, 3′ 6″ **$30.00**
No. 2, Distributer, 4′ 8″ **36.00**
No. 3, Distributer, 5′ 10″ **42.00**
No. 4, Distributer, 8′ 2″ **48.00**

We furnish these Distributers with boots at **$10.00** advance on No. 1; **$13.50** on No. 2; **$16.50** on No. 3.
Those persons who use unsifted lime can order extra screen, which is a little larger than the box. **Price, $2.50.**

PRAIRIE CITY POTATO CUTTER

Price, $2.00.

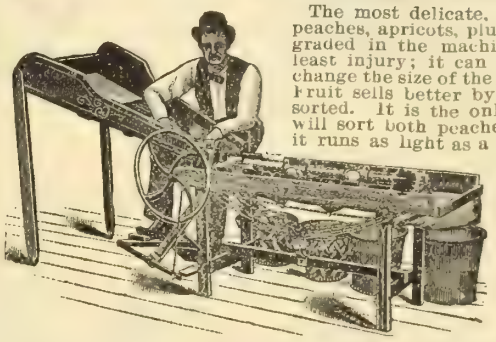


The Prairie City Potato Cutter will cut potatoes for seed faster than seven or eight men can by hand.

Directions for Using the Prairie City Potato Cutter.

Fasten the cutter by rear bolt to a barrel or box, with a space sufficiently large to let the pieces of potatoes fall through. Place a potato on knives with one hand, and with the other press it through, while reaching for another potato with the first hand. Cut one potato at a time. The more careful you are to place the potatoes, the better the eyes will be distributed. You can, by changing knives, cut the pieces any desired size, and if desired you can place a division beneath, so as to collect all the seed ends in one pile separate from the rest. If the lever suggests some other way, you can, by two screws, take it off and change it by making it longer, or by making the paddle smaller or larger, if desired, or you can leave it off and use a wooden mallet. Be careful not to press or strike harder than sufficient to drive the potato down—a little experience will determine the force required. To enable rapid work, a small feed table placed close to the operator will be found very convenient.

The Latest Improved Peach and Potato Sorter.



The most delicate, ripe and softest peaches, apricots, plums, etc., can be graded in the machine without the least injury; it can be adjusted to change the size of the grades required. Fruit sells better by being properly sorted. It is the only machine that will sort both peaches and potatoes; it runs as light as a sewing machine with foot treadle; it is easily operated.

Weight, 200 pounds.

Shireman's patent.

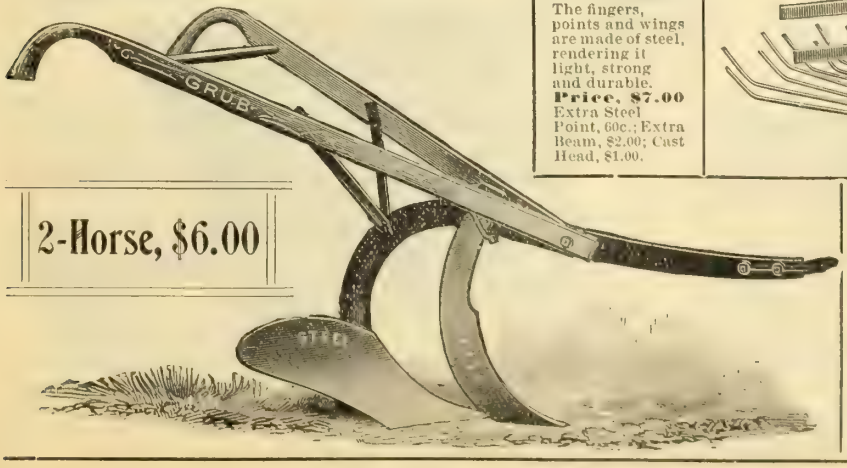
Retail Price.
No. 1—capacity 2,000 bushels per day, **$30.00.**

HENCH & DROMGOLD'S POTATO DIGGER.

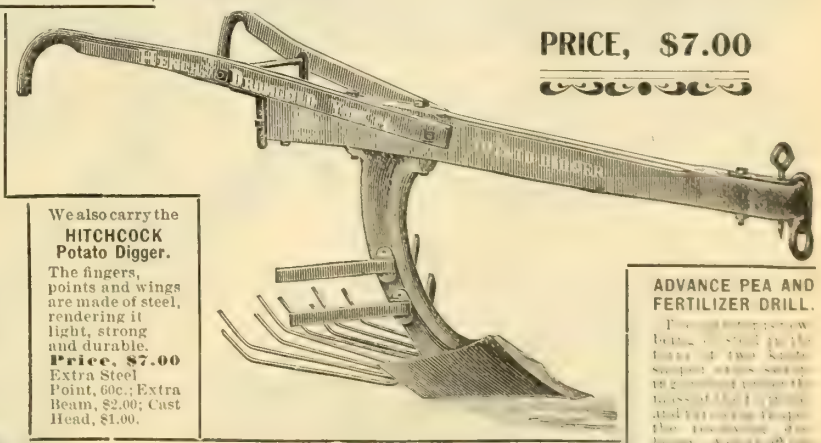
The standards are made of cast iron, having on a highly polished steel share. The side or wing pieces to the standard are bolted with a ratchet, by which they can be adjusted to stand up or down as desired. The fingers extending back from the standard are made in a zig-zag form, instead of straight as shown in cut, on account of which they separate the potatoes from the ground better than straight ones. They are made of spring steel, and are very elastic and durable.

Old Dominion Grub Plow.

WITH this Plow the "toughest" piece of rooty ground in "America" can be brought into subjection. It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of the best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite Plow of its class. It is built in RIGHT HAND ONLY, and cuts about 7 inches. If you ever have a demand for a new ground plow, you should try this one. It will please the **"toughest"** customer.



2-Horse, $6.00

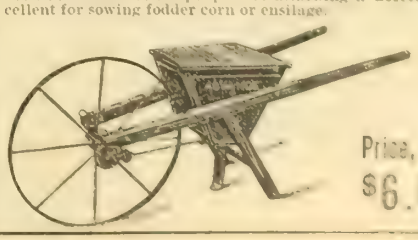


PRICE, $7.00

We also carry the **HITCHCOCK Potato Digger.**
The fingers, points and wings are made of steel, rendering it light, strong and durable.
Price, $7.00
Extra Steel Point, 60c.; Extra Beam, $2.00; Cast Head, $1.00.

ADVANCE PEA AND FERTILIZER DRILL.

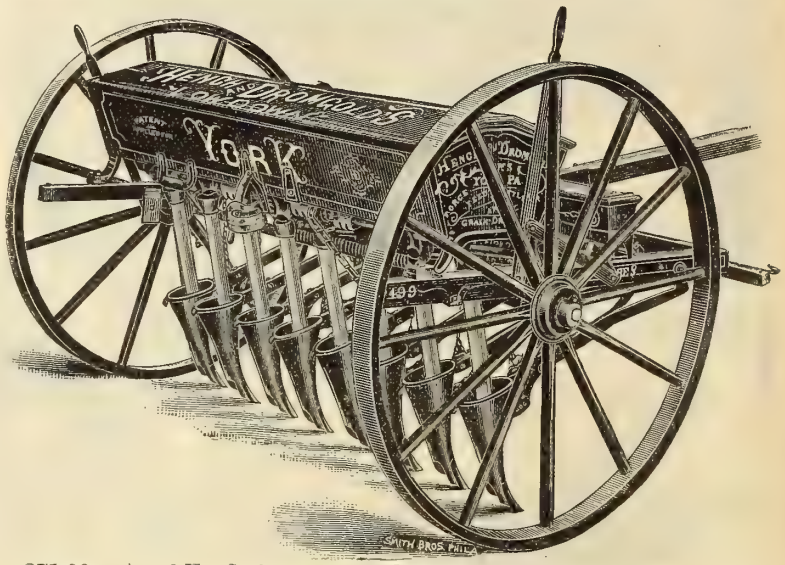
lately been added, whereby the waste of fertil[illegible] when turning at ends of rows. As shown in cut, loop[illegible] bolted to frame for the purpose of attaching a horse. Excellent for sowing fodder corn or ensilage.



Price, $6.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

THE YORK FORCE FEED GRAIN AND FERTILIZER DRILL.



BOTH the grain and fertilizer sowers are positive Force Feeds, and will sow with absolute regularity any kind of grain or fertilizer in good condition. The grass seeder is also a force feed and can be used either in front or rear of the hoes; also the quantity can be changed to any amount necessary. It is fastened on the frame and very low down, thus preventing the wind from blowing the seed away before reaching the ground.

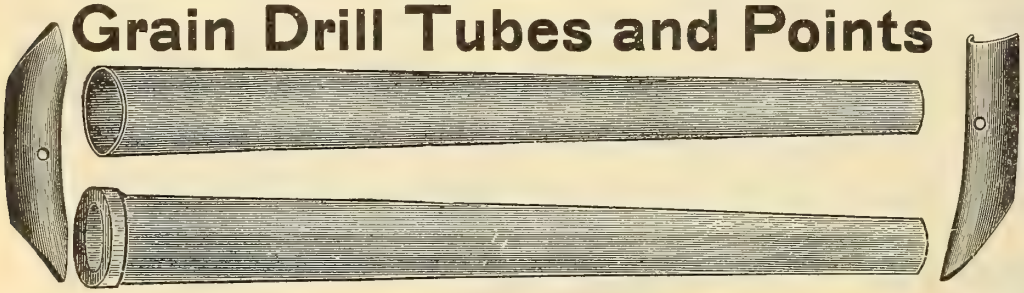
Two levers are used on this drill—one for grain feed and one for fertilizer feed, and by simply moving them either back or forward the indicators, in plain view, will guide the operator, and enable him to accurately sow the desired quantity per acre; in using the fertilizer feed the operator must be governed by the condition of the material. The quantity of grain to be sowed can by this means be varied from the smallest to the greatest amount desired, varying as little as a half to a pint at each change. The fertilizer feed can be stopped or started at any time while the drill is in motion, which makes it convenient in case the operator does not wish to sow fertilizer while going over good ground.

These drills will be furnished either in pin or spring hoe, or with discs as well as hoes as shown in cut.

8-Hoe Pin.....$65.00	10-Hoe Pin.....$71.00	8-Hoe Spring.....$70.00	10-Hoe Spring.....$76.00
9-Hoe Pin..... 68.00	11-Hoe Pin..... 74.00	9-Hoe Spring..... 73.00	11-Hoe Spring..... 79.00

Special Discount for Cash.

Grain Drill Tubes and Points

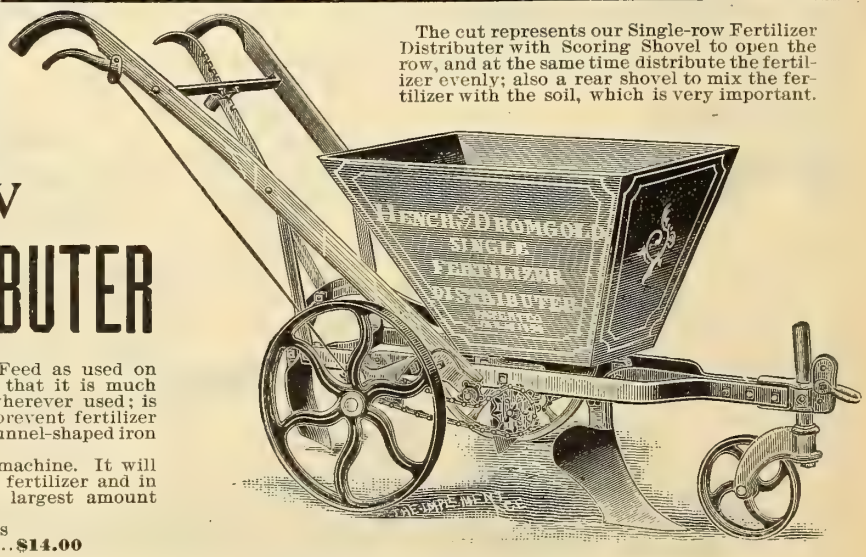


WE ARE ONE
OF THE
Largest Distributers
—OF—
Grain Drill Points and Tubes in the country.

For all leading Grain Drills, including York, Superior, Pennsylvania Bickford & Hoffman, Buckeye, Hoosier, Indiana, Champion, Empire, McSherry Hagerstown, Greencastle, etc.

In ordering **Tubes** it is always best to **send** an old tube as a sample; if that cannot be done, be **sure to state name of Drill; the kind of tube, whether with flange top or plain, and by all means the length and diameter at top and bottom.** Also with regard to **points, either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. It is always best, if possible, to send an old sample. If our customers will carefully comply with the foregoing directions, it will be a mutual saving of an immense amount of time.**

Price, Tubes.....20 cents each.
Price, Points.....10 cents each.



The cut represents our Single-row Fertilizer Distributer with Scoring Shovel to open the row, and at the same time distribute the fertilizer evenly; also a rear shovel to mix the fertilizer with the soil, which is very important.

SINGLE ROW
FERTILIZER DISTRIBUTER

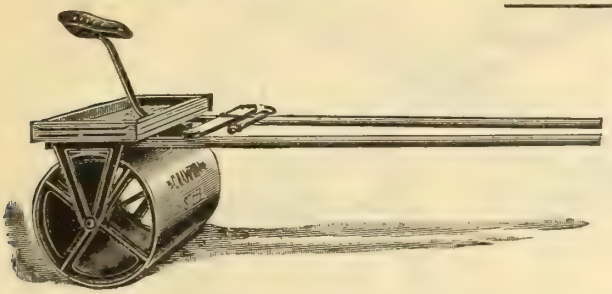
THIS DISTRIBUTER has same Fertilizer Feed as used on Hench & Dromgold corn planters except that it is much larger; it has given perfect satisfaction wherever used; is comprised of only five pieces, so arranged as to prevent fertilizer from arching. We also have under the planter a funnel-shaped iron which scatters the fertilizer as desired.

Three chain wheels are furnished with each machine. It will sow or distribute evenly any kind of commercial fertilizer and in any quantity desired, from the smallest to the largest amount required per acre.

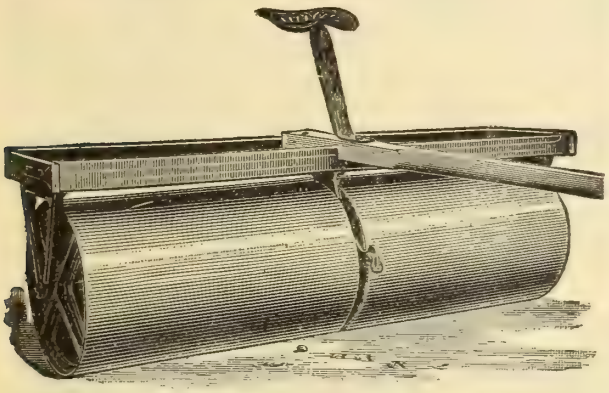
Price, with furrowing out and rear shovels complete.....$14.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

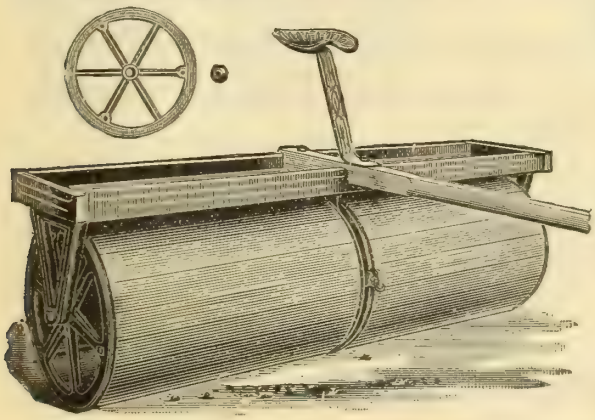
LAWN AND FIELD ROLLERS



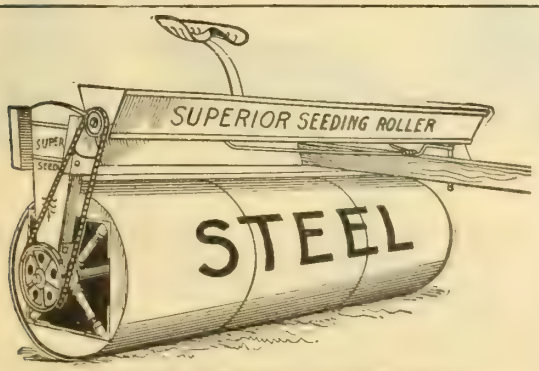
THE BALTIMORE HORSE LAWN ROLLER.



THE BALTIMORE STEEL TWO-HORSE ROLLER, No. 2.



BALTIMORE WOOD FIELD ROLLER, No. 1.



SUPERIOR STEEL FIELD ROLLER, No. 3.

The Baltimore Hand Lawn Roller

CAST IRON.

EVERY person who wishes a smooth well kept lawn realizes the fact that a good lawn roller is one of the necessities. So we add to our list the "Baltimore" making our line the most complete for all purposes to be found anywhere. These rollers are specially desirable; they will not dent; wet grass and dirt do not cling to them, owing to their highly polished surface and rivetless ends. Have counter balance which holds up the handle and makes it very easy to push.

No.	No. Sec.	Width of face.	Diam. Sec.	Total length.	Weight.	Price.
4	2	20 in.	20 in.	20 in.	250 lbs.	$10.25
6	3	8 in.	20 in.	24 in.	300 lbs.	12.25
9	3	8 in.	24 in.	24 in.	450 lbs.	18.25

SUPERIOR STEEL ROLLERS.

No.	Section.	Track.	Diameter.	Av. Wt.	List Price.	Retail Price.
A	1	20 in.	20 in.	250 lbs.	$14.00	$10.00
C	2	20 in.	20 in.	275 lbs.	15.00	10.50
F	2	24 in.	24 in.	400 lbs.	21.00	15.00

The Baltimore Horse Lawn Roller.

This Roller is furnished with seat. We furnish this Roller in two sizes, Nos. 16 and 17. No. 16 (see cut) has 26-inch steel rim, 4 feet, one section, one horse; weight, 375 pounds. No. 17 has 26-inch steel rim, 4 feet, two sections, one horse; weight, 425 pounds.

No. 16.... ..... $16.00 No. 17 .. ..$18.00

2-L. HORSE LAWN ROLLER.

Two sections, 4 ft. long, 24 in. diameter, average weight, 500 pounds.

Price..... $20.00

O. L. HORSE LAWN ROLLER.

Three sections, 5 feet, average weight, 550 pounds. Price, $25.00

THE BALTIMORE STEEL TWO-HORSE ROLLER No. 2.

Two sections; 8 foot; 26-inch steel rim; weight, 700 lbs; with neck yoke and whiffletrees. These Rollers are made with steel drums of special high carbon steel, riveted to two cast iron heads. The rolls revolve on a 1¾ inch round shaft, held stationary and in place with a set screw in each end hanger, making it strong and firm. Our Removable Chilled Bearing is worth your careful attention. It can be replaced at the small price of 25 cents. No Roller is complete without it.

Price... .....$22.50

Baltimore Wood Field Rollers No. 1.

(WITH NECK YOKE AND WHIFFLETREES.)

THIS Roller is made of all Oak Staves, let into a mortise or groove in casting, and held together by three long bolts, running lengthwise inside of roll to clamp the two castings together, instead of being bolted as most all Rollers are made. 27 inches diameter, 2 sections, each 3 ft. 9 in. Weight, 700 lbs.

Price.....$17.00

SUPERIOR STEEL FIELD ROLLERS, No. 3.

Roller has three sections of two feet each, six feet long; diameter 24 inches; average weight, 550 pounds. Has no neck yoke or whiffletrees. They have a substantial hardwood weightbox, which can also be used as a convenient way for clearing fields of loose stones.

Price, without Seeder attachment, $25.00

LAWN AND FIELD CAST IRON ROLLERS.

Full assortment of sizes. Prices on application.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore and Old Dominion Horse Hoes and Cultivators.

THE BALTIMORE has bent steel frames. The only difference between the **Baltimore** and **Old Dominion** Cultivators is that the latter is a little lighter, and has straight frame. The Old Dominion Cultivator is sold principally in Virginia and the South, and wherever sold it becomes a favorite.

THE Old Dominion has No. 68 plates, and the Baltimore No. 82 plates. . . . .

PRICES.

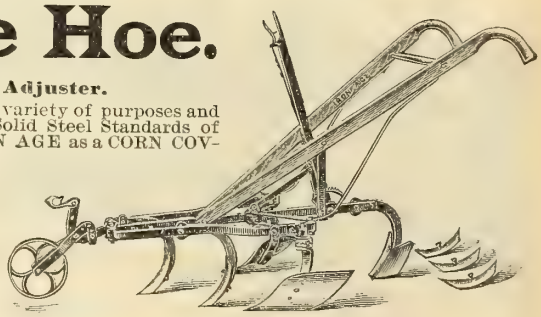
Baltimore Cultivator	$2.50	Old Dominion Cultivator	$2.25
Baltimore Horse Hoe and Cultivator combined, plain	3.50	Old Dominion Cultivator and Horse Hoe, plain	3.25
Baltimore Horse Hoe and Cultivator combined, with wheel	4.00	Old Dominion Cultivator and Horse Hoe, with wheel	3.75

For Lever on Old Dominion or Baltimore, add **60**c.

The Iron Age Horse Hoe.

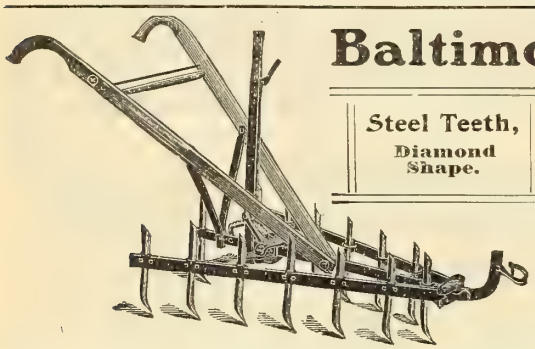
Wheel and Cultivator Combination—with or without Lever Adjuster.

THE IRON AGE is celebrated for solidity of construction, adaptation to a great variety of purposes and ease of handling. The reversible hoes or plows of Horse Hoe are bolted to Solid Steel Standards of their own (not attached to light cultivator standards). The value of the IRON AGE as a CORN COVERER is now well known, also for covering Peas, Potatoes, etc., and for making up rows for root crops it is not surpassed.



PRICES.

Iron Age Cultivator, plain	$3.25
Iron Age Cultivator, with Lever	4.00
Iron Age Horse Hoe and Cultivator, plain	4.25
Iron Age Horse Hoe and Cultivator, with Wheel	4.75
Iron Age Horse Hoe and Cultivator, with Lever and Wheel	5.50
Iron Age Horse Hoe, Cultivator and Corn Coverer combined, plain	5.50
Iron Age Horse Hoe, Cultivator and Corn Coverer combined, with Lever	6.25



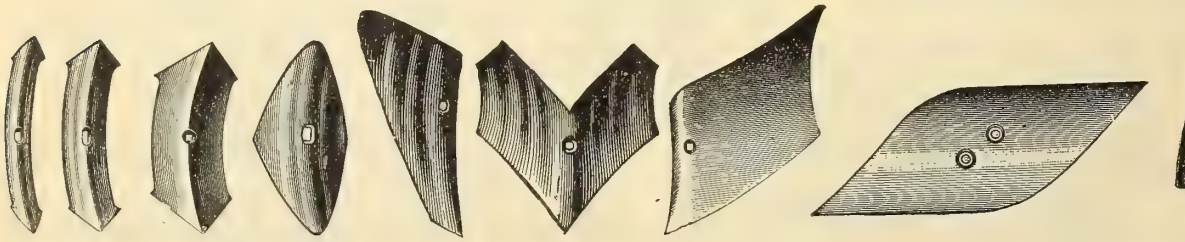
Steel Teeth, Diamond Shape.

Baltimore Combined Harrow and Cultivator.

AN implement in every way worthy of purchase by all wide-awake farmers; they cannot afford to do without it. Four positions of teeth, doing good work in all crops. This is not to be compared with low-priced harrows, similar in appearance, but made of common material. The sale in this style tool has been phenomenal. At first we sold quite a number, and the indications were for a big trade, but we had no idea that the sales would reach their present proportions. The teeth have four positions—first, the position as shown in cut, in which case it can be used for working very close to small plants. Thoroughly pulverizes, but throws no dirt on plants. Second position, as a straight tooth harrow. Third position, the teeth can be arranged as a smoothing harrow, with sharp points down, in order to cut and level the surface. Fourth position, the teeth can be set with sheared end down, being less liable to injure young plants.

Price, without lever.....**$3.00** Price, with lever.....**$3.50**

Cultivator Points and Steels.



Leveler.

0 1 82 68 10 11 16 12

No. 0—1¼ in. Diamond Point Steel, with bolts	$ .06	No. 12—Horse Hoe, Steel, with Shank or Standard, per pair	$1.00
" 1—2 " " " " " "	.06½	" 12— " " " without " " " "	.36
" 82—3 " " " " " "	.07	Horse Hoe Attachments complete, in 3 pieces	1.15
" 68—Oval or Jersey	.07½	(The No. 12 is represented on the cut of the Iron Age Horse Hoe.)	
" 10—Turn Shovel, right or left, no bolts, each	.18	Wheels for Cultivators, each	.50
" 11—6 inch Sweep, without bolts	.15	Levelers for Cultivators, each	.75
" 11—8 " " " "	.18	Cultivator Plate Bolts, each	.02
" 16—Turn Shovel, " "	.18	Cultivator Frame Bolts, each	.02
Teeth for Baltimore Combined Harrow and Cultivator, Diamand Shaped Steel, each			.06

All of the above goods are of Best Steel and Highly Polished. **Special Prices on Bolts in Quantities.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

The Original and only Genuine . .

"MALTA" IRON BEAM

Single and Double Shovel Plows.

Has 1¼ x ¾ inch Beam.

Price, Double Shovel Plow $2.50
" Single Shovel Plow 2.25

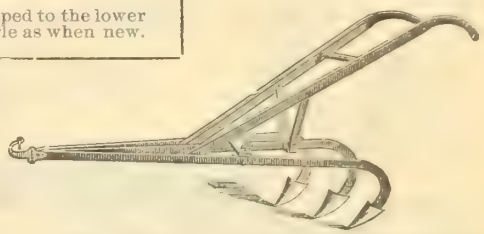
THE "Genuine Malta" Double Shovel Plow, as it is now made, consists of two solid pieces of iron—milled especially—made extra heavy in the shank, and tapered at the point, giving strength where it is most needed. It is provided with Malleable Adjustable Clevis Hook and Handle Braces. Blades are of the best of Open-hearth Steel, full weight and any desired width. We desire to call particular attention to the "Two Hole" feature in the shank—the most simple, sensible and substantial method yet devised for giving adjustment and long life to the blades. When the blades are new and long, they should be bolted in the upper hole. But after they become worn off at the point, and do not have the proper pitch or angle, they should be dropped to the lower hole. The point of the blade is thereby thrown forward and given the same pitch or angle as when new.

FARMERS' FAVORITE.

Three and Four Shovel Drag or Cultivator.

Price.

3 Shovel Drag $2.50
4 Shovel Drag, Iron Beam 3.50
Wood Beam 3.50

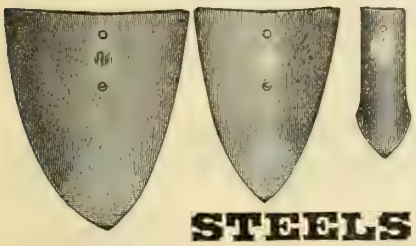


Farmers' Favorite Single and Double Shovel Plows.

THESE Shovel Plows, which were introduced by us some years ago, are rapidly growing into favor. The cost of these goods is not so much in the finish as in the construction and material, that being the principal requisite in an implement.

We wish to call special attention to our three and four shovel **Drags** or **Cultivators.** They are particularly well adapted to hillside work, at the same time doing excellent work on level land, cover more ground and leave the land level and well plowed.

Farmers' Favorite, Single Shovel $2.00
Farmers' Favorite, Double Shovel 2.25



STEELS

FOR SINGLE AND DOUBLE SHOVEL PLOWS.

Full and complete line of polished steels for single and double shovel plows, made in both one and two hole styles.

5½ & 6 in. D. S. blades, per pair..40c.
7 in. D. S. blades, per pair.....50c.
8 in. D. S. blades, per pair.....60c.
Bull Tongues, per pair ..... 40c.
10 in. single shovel blades, each.45c.
12 in. single shovel blades, each.50c.
14 in. single shovel blades, ea..65c.
16 in. single shovel blades, ea..75c.
Triple Shovel plates, per set of three .....40c.
Triple Shovel Bull Tongues, per set..... 35c.

STEEL BEAM GEORGIA STOCK No. 1.

FOR the purpose of attaching shovel blades or steels of any kind used on shovel plows. These are a new invention and are the best on the market. The beam is made of a plate of steel, formed in the shape of a U bar, the front end being arranged with an adjustable clevis, dispensing with the need of a lap ring. The rear part of the beam forms a Steel Box for the plow handles, thus making it impossible to split the handles. Regular Georgia Stock Plow Handles will fit these plow Stocks. **Price, $1.00.**

Extra Heavy Steel Beam Georgia Stock, No. 3,

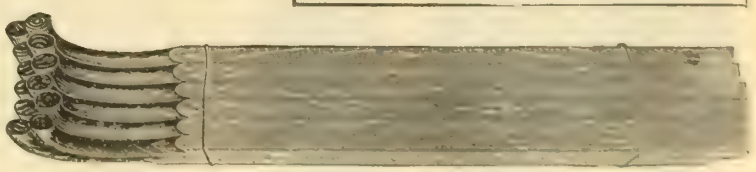
with adjustable landside and rudder. This plow stock has an extra long and very strong beam and heavy foot. The construction of this steel beam makes this the best and strongest plow stock on the market. **Price, $1.25.**

Gold Medal Sub-Soil Plow.

THIS is a very superior implement, combining lightness of draft, economy and perfection of work. The plow will reach a depth of 20 inches.

Shovel Plow Fender.

Price, each, 30c.



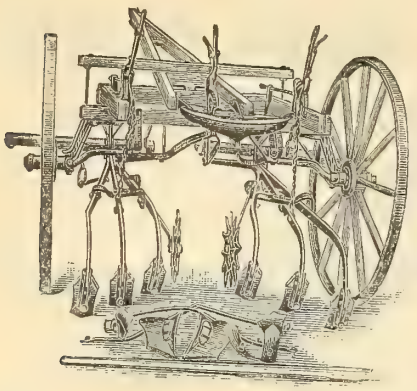
PRICE.

2 Horse with cast point, plain $6.50
2 Horse with cast point, with wheel 7.25
2 Horse Cast Share ..... .75

PLOW HANDLES.

1½ x 2 inches, 5 feet long ..... per pair, 30c.
1¼ x 2¼ inches, 5 feet long ..... per pair, 35c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Hench Improved Riding and Walking Cultivator.

THIS CULTIVATOR HAS MANY ADVANTAGES, AS FOLLOWS:

1st.—It has the improved movable spindle by which the operator guides the machine to the right or left at will; can be managed by any boy who can drive a team; has double tongue, giving full view of the corn row.

2d.—Each beam or drag bar has lever by which it can be raised independently and, by changing a bolt, both drag bars can be raised or lowered by one lever, and each has an independent spring pressure.

3d.—It has also a centre adjusting lever for setting the shovels closer to or from the corn row.

4th.—The drag bars couple in front with ball and socket bearings, by which all lost motion and wear can be taken up.

5th.—The single tree rods are connected to the shovel beams and serve as a pressure on the shovels while cultivating, and also assist the operator in raising the shovel beams. They are made with either pin-hoe or spring-hoe attachments.

6th.—Two centre beams and shovels are furnished with each machine, making an eight-shovel cultivator for fallow cultivating. The three shovels beams on either side can be set closer together or wider apart, and either one can be set to run deeper than the other. They can also be spaced six inches farther apart from front shovel or rear shovel.

Pin-Hoe Cultivators	$25.00
Spring-Hoe Cultivators	28.50
Extra Beam for Cultivating Orchards	2.50
Extra Beam for Spring-Hoe	3.50

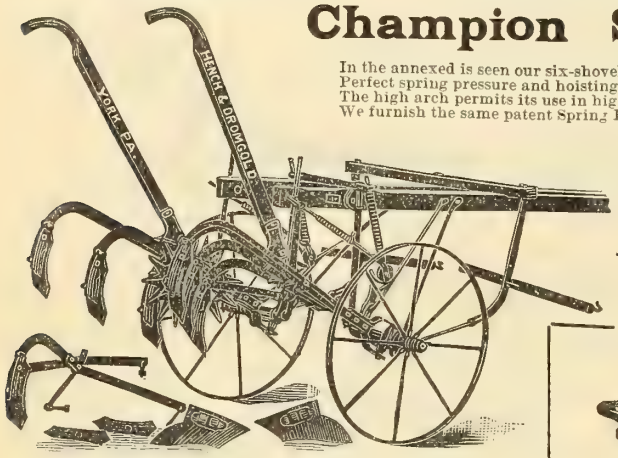
SPECIAL PRICES FOR CASH.

Steels for Riding and Walking Cultivators.

For Hench and Dromgold Riding Cultivator and Champion Walking Cultivators.

2x10 inch plain shovel, without revolving back, at	15c.
3½x10½ inch new style shovels with revolving back	25c.
3½x10½ inch old style shovels, without revolving back	20c.
6x11 blade with revolving backs for four shovel cultivators	40c.
Hilling shovels, each	50c.

Champion Steel Walking Cultivator.



In the annexed is seen our six-shovel Corn and Fallow Cultivator, with seventh or middle shovel.
Perfect spring pressure and hoisting device for regulating the shovel beams or drag bars for deep or shallow cultivating.
The high arch permits its use in high corn, and being firmly braced gives it great strength.
We furnish the same patent Spring Hoe that is used on our riding cultivators for rocky or stumpy land, at small extra cost.

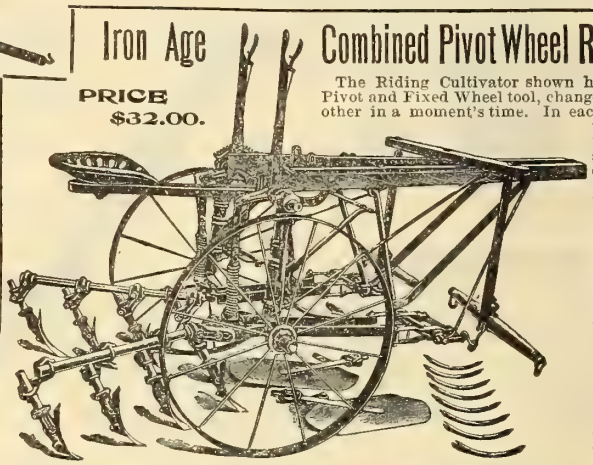
PRICE.

Six Shovel Cultivator, Pin Hoe, with two Bull Tongues and two Hilling Shovels,	$15.50
Seventh or Middle Shovel, extra	1.50
Six Shovel Cultivator, Spring Hoe	19.25
Seventh or Middle Shovel	2.25

SPECIAL PRICE FOR CASH.

Iron Age Combined Pivot Wheel Riding Cultivator

PRICE $32.00.



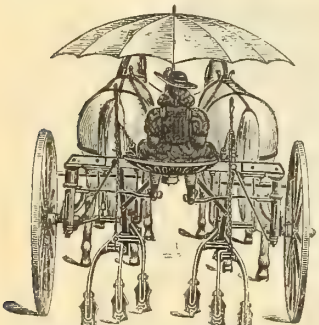
The Riding Cultivator shown herewith is a combined Pivot and Fixed Wheel tool, changed from one form to the other in a moment's time. In each form it contains advantages over many tools made expressly as a Pivot or Fixed Wheel cultivator.

Its great adjustability is an important feature; rows as narrow as 28 inches may be cultivated as well as rows 54 inches wide.

The gang bars are hinged or pivoted, which makes them adjustable to suit the cultivating width. In narrow rows reduce the width, and by reason of the teeth standards being on these bars, the teeth are brought nearer in line with each other. After which, the placing of narrow teeth on the standards which are furnished on each machine, will allow the use of eight teeth which must thoroughly pulverize the soil without ridging the crop. The teeth are also independent of each other on the gang bars; more may be added or some taken off in a moment's time.

We furnish this tool, when ordered, with spring teeth at the same price as when fitted with regular cultivator standards.

Baltimore Pivot Axle Riding Cultivator.



SIX BEAM PIN TRIP.

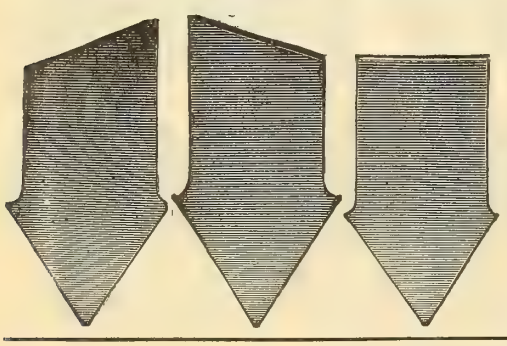
The beams are guided by pressure on the foot levers, connected with the pivoted axles, moving with the wheels, and responds readily and easily to the will of the operator. The adjustment of beams, as to distance apart and depth of shovels can be almost instantly changed and shovels set to any desired depth, whether ground be HARD or SOFT, and they will STAY where set. It is first-class for cultivating HILLSIDES.

Price, 6 Beam Pin Trip, **$25.00.**

BALTIMORE WALKING CULTIVATOR, STEEL BEAM—(Six Shovel.)

The growing demand for a six shovel cultivator is the result of a better condition of the ground, and being adapted to cultivating corn as well as plowing fallow ground, seeding Wheat, Rye, Oats, etc., makes it very desirable. Can be changed to a FOUR SHOVEL Cultivator by unbolting and removing centre beams.

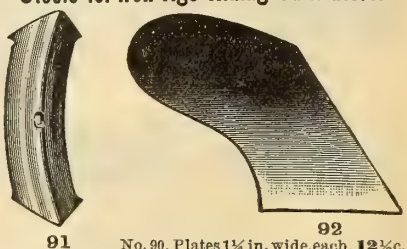
The price complete with Fenders and Steel or Wood Wheels, **$15.50.**



Cultivator Blades for Malta, Brown and Similar Styles Walking and Riding Cultivators.

Blades furnished without holes to be fitted, price, each	35c.
Bull Tongues, same as above, each	25c.
Malta Riding Cultivator Blades, complete with Back and Bolts, each	60c.
Malta Riding Cultivator Calf Tongues, complete with Backs and Bolts, each	40c.

Steels for Iron Age Riding Cultivators.



91 92

No. 90, Plates 1¼ in. wide, each,	12½c.
No. 91, Plates 2½ inches wide, each	13½c.
No. 92, Steels, per pair	65c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

WOOD AND STEEL WHIFFLETREES.

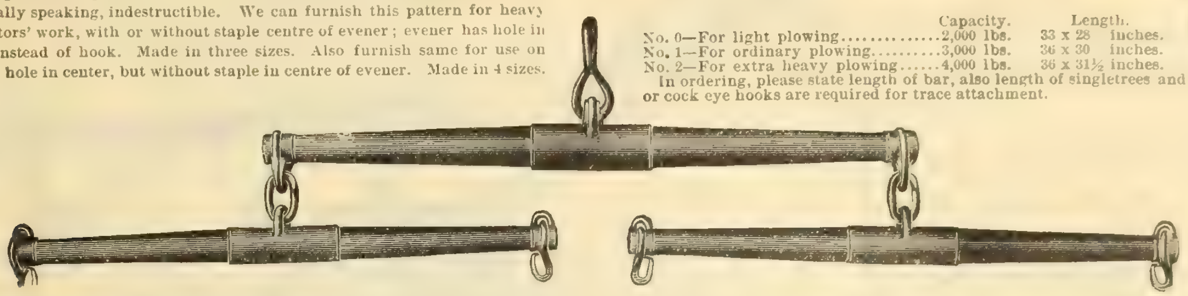
Tubular Steel Whiffletrees.

These goods are tapered from centre to end and flattened, giving great strength Practically speaking, indestructible. We can furnish this pattern for heavy contractors' work, with or without staple centre of evener; evener has hole in centre instead of hook. Made in three sizes. Also furnish same for use on wagons, hole in center, but without staple in centre of evener. Made in 4 sizes.

Plow Doubletrees in Sets. Complete—Pattern No. 101.

	Capacity.	Length.	Price per set.
No. 0—For light plowing	2,000 lbs.	33 x 28 inches.	$2.00
No. 1—For ordinary plowing	3,000 lbs.	36 x 30 inches.	2.25
No. 2—For extra heavy plowing	4,000 lbs.	36 x 31½ inches.	3.00

In ordering, please state length of bar, also length of singletrees and if rings or cock eye hooks are required for trace attachment.



Contractors' Doubletree—Chicago Pattern.

Capacity.	Evener.	Singletree.	Price per set.
No. 1—4,000 to 5,000 lbs.	41 inches long.	32 inches long.	$6.00
No. 2—6,000 to 8,000 lbs.	43 inches long.	34 inches long.	6.50
No. 3—8,000 to 10,000 lbs.	43 to 45 inches long.	34 to 36 inches long.	7.00

In ordering, please state length of evener, also whether rings or cock eye hooks are required for trace attachment.

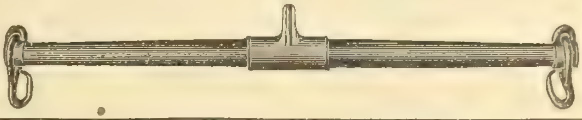
Farm Wagon Doubletrees—Pattern No. 100.

Capacity.	Evener.	Singletree.	Price per set.
No. 1—2,500 lbs.	43 inches long.	33 inches long.	$3.75
No. 2—4,000 lbs.	43 to 45 inches long.	34 inches long.	4.00

In ordering, please state length of evener, also whether rings or cock eye hooks are required for trace attachment.

Southern Plow Singletrees—Pattern No. 108.

Price each........................ $0.50



Southern Plow Singletrees—Pattern No. 108.

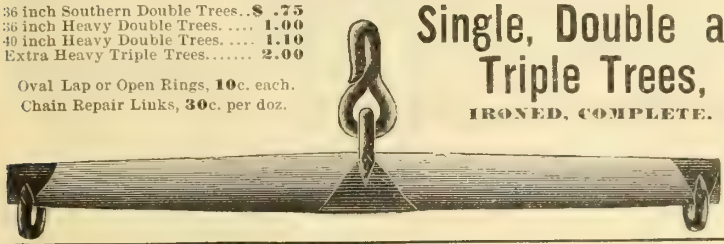
Price 28 inch........................ $0.60
Price 30 inch........................ 0.85

36 inch Southern Double Trees..$ .75
36 inch Heavy Double Trees..... 1.00
40 inch Heavy Double Trees..... 1.10
Extra Heavy Triple Trees....... 2.00

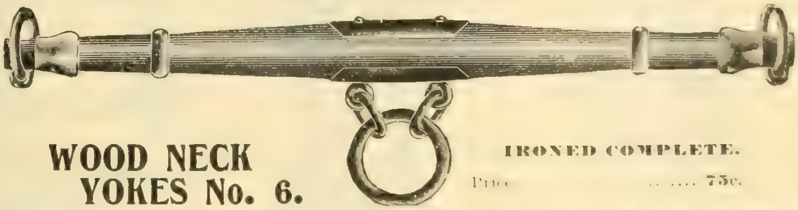
Oval Lap or Open Rings, **10**c. each.
Chain Repair Links, **30**c. per doz.

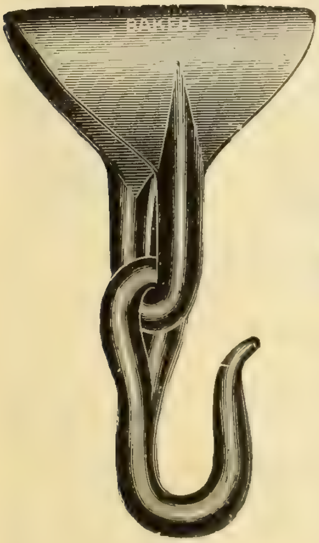
Single, Double and Triple Trees,

IRONED, COMPLETE.



26 inch Southern Single Trees........................ 25c
28 inch Extra Nailed Single Trees........................ 40c
30 inch Heavy Single Tree........................ 50c
32 inch Heavy Single Tree........................ 60c
34 inch Heavy Single Tree........................ 60c
36 inch Heavy Single Tree........................ 75c

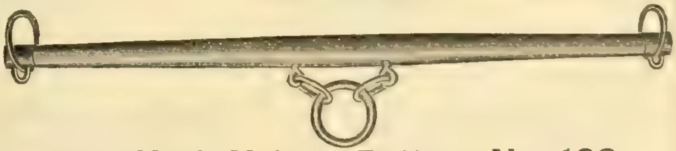




WOOD NECK YOKES No. 6.

IRONED COMPLETE.

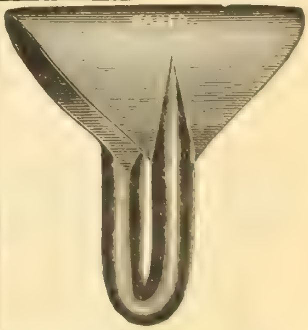
Price .... 75c.



Steel Neck Yokes—Pattern No. 103.

This cut represents our No. 2 Neck Yoke, which is very suitable for Farm Wagons and similar work.

No. 3 Neck Yoke, 40 inches long........................Price each, **$1.25**



Neck Yokes—Pattern No. 110.

This represents our No. 1 Neck Yoke which is very suitable for Reaper, Mower and and Grain Drill use.

No. 1. Neck Yoke, 36 inches long........................Price each, **$0.90**

SETS OF WELDED CLIPS.

FOR SINGLE TREES.

	Price per Set.	Doz. Sets.
No. 26—One Centre ½ inch Clip, welded and two ⅜ inch End Clips, welded, with 5-16 inch hooks as used on our 28 inch Single Trees,	$ .15	$1.25
No. 30—One Centre 9-16 inch Clip, welded and two 7-16 inch End Clips, welded, with ⅜ inch hooks as used on our 30 and 32 inch Heavy Single Trees........	.20	2.00
No. 34—One Centre ⅝ inch Clip, welded, and two 7-16 inch End Clips, welded, with ⅜ inch hooks as used on our 34 and 36 inch Heavy Single Trees........	.25	2.25

FOR DOUBLE TREES.

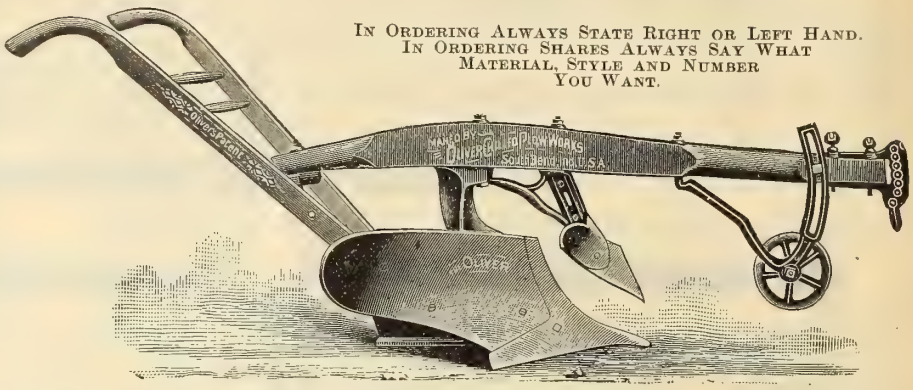
	Price per Set.	Doz. Sets.
No. 36—Southern, one ¾ inch Centre Clip and Hook, welded with ½ inch Hook and two ½ inch End Clips, welded, as used on our 36 inch Southern Double Trees........	$ .25	$2.25
Nos. 36 and 40—Pennsylvania, one ¾ inch Centre Clip and Hook welded, with ¾ inch Hook and two 9-16 inch End Clips, welded, as used on our 36 and 40 inch Heavy Pennsylvania Double Trees........	.30	3.25

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Genuine Oliver Chilled Plows and Repairs.

DON'T forget to look for the Oliver Trade Mark on all Oliver Goods. None genuine without it.

In Ordering Always State Right or Left Hand.
In Ordering Shares Always Say What Material, Style and Number You Want.



PLOWS—PRICES.

No. A-1 and A-2	$4.50	No. 22, Iron Beam	$11.00
" B	6.00	" 40	9.50
" B Vineyard, right hand only	7.50	" E-1	9.50
No. 10 0	7.00	" 14-A Steel, Mouldboard and Landside, Cast Share and Shoe, right hand only	11.00
" 13	8.00	No. 40, XX O. C. Plow	10.50
" 19	8.50		
" 20	9.00		

OLIVER COMBINATION PLOWS.

WOOD BEAM, RIGHT AND LEFT HAND.

No. 120—All Chilled, only	$ 9.50
" 140—All Chilled, only	10.00

OLIVER SPECIAL PLOWS.

No. 1—Road and Grading Plow, all steel, with Standing Coulter and Gauge Iron or Wheel	$30.00
The Oliver Sub-soiler, best of its kind, with Wheel	14.00

OLIVER HILLSIDE PLOWS.

They are made in two sizes—the smallest, No. 52, for one horse, and the largest, No. 53, for two horses. It is made with steel mouldboard and cast point, and is well equipped in all respects for first-class work.

In addition to its excellent qualities as a hillside plow, it also works admirably in level ground, and having been thoroughly tried we do not hesitate to recommend it highly.

No. 52, Steel Mouldboard, Cast Share	$10.00
No. 53, Steel Mouldboard, Cast Share	11.00
No. 58, Chilled Mouldboard, Cast Share	9.00

NOTE—A Clevis, Wrench and an extra share are included in above prices for plows fitted with cast shares, but wheels and jointers are not.

OLIVER REPAIRS.

MOULDBOARDS.

No. A-1 and A-2	$1.25	No. E	$3.00
" B and B. Vineyard	1.75	" 14 A, Steel	3.00
" 10-0	2.00	" 98	2.75
" 13 and 13 Vineyard	2.25	" 99	3.00
" 19	2.50	" 119	2.50
" 20	2 75	" 120	2.75
" 22	3.00	" 140	3.00
" 40	3.00		

STANDARDS.

No. A	$1.25	No. 20	$2.25
" B	1.50	" 40	2.50
" B. Vineyard	2.00	" E	2.50
" 10-0	2.00	" 119	2.50
" 13	2.25	" 120	2.50
" 19	2.25	" 140	2.75

SHARES.

Numbers.	Cutter Shares.	Plain Shares.	Cutter Slip-Nose Shares.	Plain Slip-Nose Shares.	Reversible Shares,	Cast Reversible Slip.
A	25c.	20c.		25c.		
B	25c.	20c.		25c.		10c.
B, Vin.		20c.				
10-0	25c.		35c.			10c.
13	25c.		35c.			10c.
19	30c.		40c.			10c.
20	30c.		40c.			10c.
22	40c.	35c.		45c.		10c.
30	35c.	30c.				
40	30c.		45c.			10c.
E	30c.		45c.			10c.
14-A	35c.	30c.		40c.		10c.
98	65c.				25c.	15c.
99	65c.				25c.	15c.
119					35c,	25c.
120					35c.	25c.
140					35c.	25c.

All Polished Points, each, add extra 10 cents
Non-Reversible Shares and Slips same as Reversible.
Bowers' Slips same as other slips.

LANDSIDES.

No. A	$ .40	No. E	$ .75
" B. and B. Vineyard	.60	" 14-A, Cast	.50
" 10-0	.60	" 14-A, Steel	1.00
" 13 and 13 Vineyard	.65	" 98	.75
" 19	.75	" 99	.75
" 20	.75	" 119	.75
" 22	.75	" 120	.75
" 30	.75	" 140	.75
" 40	.75		

HANDLE BRACES.

No. A	25 cents.
" B-10-13-13 Vineyard, B Vineyard	30 "
All other Handle Braces	50 "

HANDLES.

COMPLETE.—PER SET.

No. A-B-10-0	$1.25	No. B Vineyard	$2.00
" 22, complete, less rod	1 25	" 98-99-119-120 and 140.	1.85
" 14-A and rod	1.50	" 113	1.60
" 13	1.50	" 19-20-E and 40	1.75

HANDLES.

PER PAIR AND SINGLE.

All numbers, per pair, loose	$1.00
" " single, each	.50
Rounds, per pair	.10
L. S. Handle Plates	.10

CLEVISES.

Clevises Marked "A," for One-Horse Plows	$ .20
" Marked "B," for Two-Horse Plows	.30
" Marked "D," for Three-Horse Plows	.50
" Shackles, Twisted	.10
" Wrenches	.05
" Guide Pins	.03
" Shackle Pins	.03
" Links, Two-Horse	05
" Rings, One-Horse	.05

BEAMS.

No. A-B-B Vineyard and 10	$1.00
All other numbers, Wood	1.25
No. 22, Iron	4.25

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

OLIVER REPAIRS--Continued.

ROLLING COULTERS.

We have Rolling Coulters to fit every kind of Oliver Plows upon which they may be required. See prices below.

11-inch, for One-Horse Plows, complete $2.50
13-inch, for Two or Three Horse Plows, complete 3.00

HANGING COULTERS.

These are made to any of our Jointer Holders, and take the place of the Jointer where their use is desired

All other numbers, complete, Two-Horse $2.00
All numbers, complete, One-Horse 1.50
Holders, same as for Jointers 1.00

COMBINATION PLOW REPAIRS.

Numbers.	Mouldboard Lugs.	Handle Lugs.	Mouldboard and Landside Braces.	Shins.	Levers.	Springs.	Landside Plates.
98	20c.	20c.	40c.	.....	20c.	5c.	5c.
99	20c.	20c.	40c.	.....	20c.	5c.	5c.
119	20c.	20c.	40c.	20c.	20c.	5c.	.....
120	20c.	20c.	40c.	20c.	20c.	5c.	.....
140	20c.	20c.	40c.	20c.	20c.	5c.	.....

HILL-SIDE PLOW REPAIRS.

Plow Nos.	Chilled Mouldboard	Steel Mouldboard	Standards.	Landsides.	Cast Shares.	Set Handles.	Beams.	Clevises.	Wrenches.	Wheels.	Jointers.
52	.....	$2.75	$2.75	$. .65	$ .50	$1.75	$1.00	$ .20	$ .15	$ .75	.....
53	.....	3.00	3.00	.75	.50	1.75	1.25	.30	.15	.75	.....
55	.....	4.00	3.25	1.00	.55	2.00	1.00	.35	.15	1.25	$2.00
58	$2.00	.....	.....	.75	.50	1.25	4.00	.25	.15	1.00	.....

NOTE.—Where blank spaces occur, parts are not made, hence prices are not given.

No. 55, Jointer Standards, Wrought $1.00
" 55, Jointer Mouldboard and Point ..... .50
" 55, Wheel Standard, Double ..... .75
" 55, Wheel Standard, Yoke ..... .50
" 52-C, Hook Holder ..... .30

No. 52-D-M, B, Foot $1.00
" 52-F-M B Brace ..... .60
" 52-H, Lever 1.00
" 52-I, Handle Part ..... .30

WHEELS.

Their use is strongly recommended in wet or mellow ground. Can be furnished for nearly all our patterns. See prices below.

Straight Standard, One-Horse, complete ..... $ .75
Brace, Standard, Two-Horse, complete 1.00
Standards, One-Horse, straight ..... .40
Standards, Two-Horse, all kinds ..... .50
Wheels, only, One-Horse ..... .40

Wheels, only, Two-Horse ..... $ .50
Hubs ..... .10
Centre Pins or Hub Bolts ..... .10
Wheel Caps or Sand Bands ..... .05

NOTE.—In ordering Wheels, say if for Right Hand or Left Hand, Wood or Steel Bean Plows.

JOINTERS.

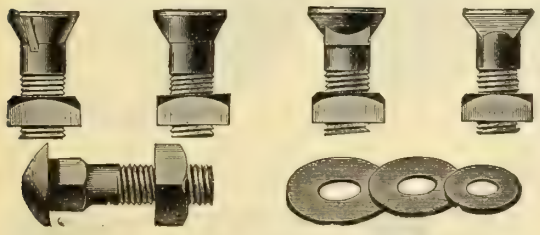
Decidedly the most important of all plow attachments, and can be used on most of our plows. The plowman who once uses a Jointer will never want to do without it.

No. D, Chilled, for One-Horse Plows $1.50
" 140, Chilled, for Nos. 120, 125 and 140 Plows 2.00
" 2, for Two and Three-Horse Plows 2.00
Jointer Points, Chilled, all numbers ..... .15
Jointer Mouldboards ..... .35

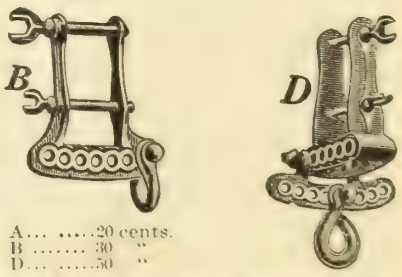
One-Horse Jointer Holders ..... $ .75
Two-Horse Jointer Holders 1.00
One Horse Jointer Standards ..... .50
Two-Horse Jointers ..... .50

NOTE.—In ordering say whether for Wood or Steel Beam Plows.

Plow, Machine and Carriage Bolts and Nuts.



PLOW CLEVISES.



A ..... 20 cents.
B ..... 30 "
D ..... 50 "

Extras furnished for most of the other Chilled and Cast Plows used throughout this section including South Bend, Roland, Syracuse, Bissell, Wiard, etc. Also keep on hand full stock of Clevises for Minor & Horton, Farmers' Friend, Girl Champion, Boy Dixie and other Southern Cast Plows, and a full supply of plow, cultivator and machine bolts.

CAST PLOWS.

Minor & Horton High Standard Plows.

No. 18 ..... $2.50
No. 18½ 2.75
No. 19 ..... $3.25
No. 19½ 4.00

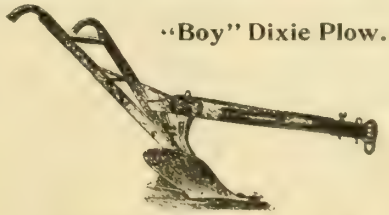
Plain Casting per lb

Girl Champion.

Casting by weight.

No. "Girl" ..$3.00 No. A ..$3.25
No. AA $3.50

"Boy" Dixie Plow.

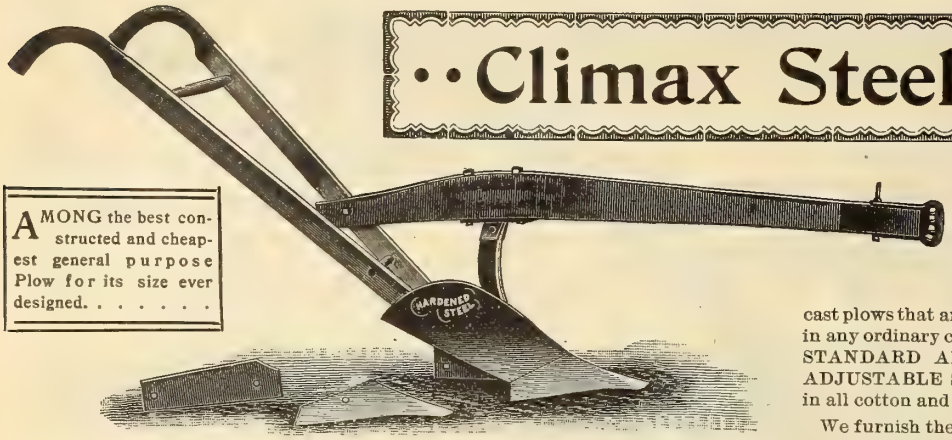


"Boy" Dixie $1.75
No. X 1.90
" I 2.10
" II 3.50

Genuine Farmers' Friend Plow.

No. ½ .. $2.00
No. 5 .... 2.00
No. 7½ .. 4.00
No. 8, with clevis, $5.00
No. 8, with rod, 5.50
Casting by weight.

··Climax Steel Plows··



AMONG the best constructed and cheapest general purpose Plow for its size ever designed. . . . . .

THESE Plows have a wide reputation for superiority in quality and finish, and for lightness, because steel being tougher than cast iron, can be made thinner. They take on a much higher degree of earth polish than is ordinarily found in cast plows that are not chilled, and consequently will scour in any ordinary clay soil. They are all made with STEEL STANDARD AND CAP, SLOPING LANDSIDE AND ADJUSTABLE SLIP HEEL, and will do superior work in all cotton and corn lands.

We furnish them in the following numbers and sizes:

Pony—Light one-horse, 7-inch cut, wood beam. Very popular. Price, with our extra steel point... **$2.25**

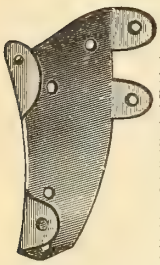
A. O.—One-horse, 8-inch cut, wood beam. Price, with extra steel point **2.75**

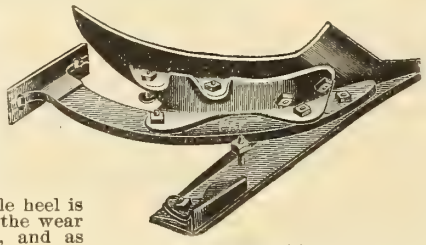
B. O.—One-horse or light two-horse, 9-inch cut, wood beam. Designed for either stubble or light sod, doing both kinds of work in the most satisfactory manner. Very light draft. Price, with extra steel point..... **3.25**

C. O —Two-horse, 10-inch cut, wood beam. Price, with extra steel share..... **5.00**

D.O.—Two-horse, 11-inch cut, wood beam. It turns its furrow slice perfectly. Price, with extra steel point..... **6.25**

Pony Series Frogs or Saddles.-Steel.





THESE cuts show our Pony series Solid Steel Frogs which are forged from a solid piece of steel. By the use of this, the strength of the plow is increased and the draft made lighter. THIS STEEL FROG IS PRACTICALLY INDESTRUCTIBLE. The adjustable heel is intended to take up the wear at heel of landside, and as long as it lasts it is practically a new landside. A great improvement.

Cast Plows The Hampton Plows

Hampton No. 1, C or Jersey & Attachments.

HAS adjustable handles, beam and brace rod. Extras are ground. There are several improvements on this implement. We confidently offer it now as one of the best truck plows made, and with the several attachments that go with it the farmer may feel that little more is to be desired for the plowing and proper cultivation of all his crops. First class work can be done on all kinds of soil. One of the strongest features is its length of landside, causing it to run perfectly level. The beam is provided with both a vertical and lateral adjustment, which is easily effected, as there are no mortices in the beam. All repairs are polished, which prevents sticking and insures easy running.

Find below description of repairs and extra attachments:

With every Hampton No. 1 C Plow is sent 3 extra moulds and one extra share and wrench, as follows:

No. 1 B, Fig. 3 in cut—A regular one horse mould board used on all regular No. 1 Plows.

Cabbage, Fig. 2 in cut, smaller than No. 1 B—Particularly adapted to the second cultivation of ALL CROPS.

Truck, Fig. 1 in cut—A small mould board suitable for the early cultivation of all truck.

No 1 C—Illustrated on plow is a large one horse mould board turning a strong furrow.

All of the above are included in the price..... **$4.00**

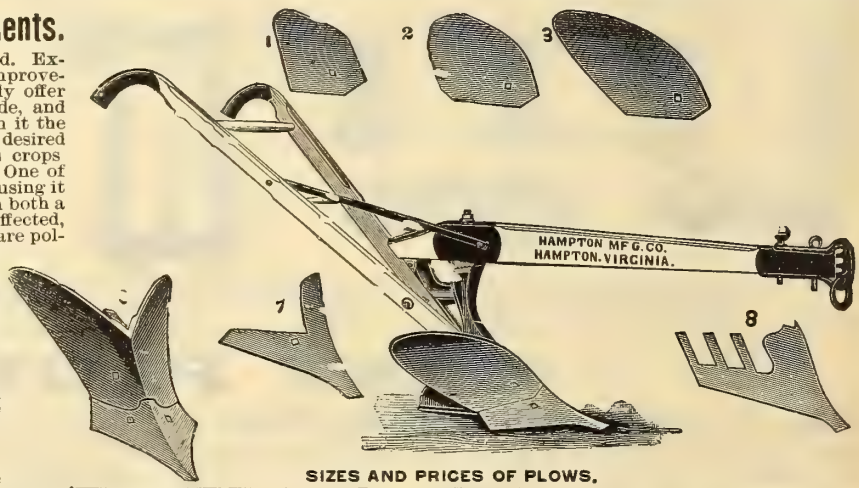
The following attachments are sold extra:

The double mould board and point (Fig. 6 in cut) is used for opening furrows and hilling up, and can be attached to the standard by removing the point and mould board. The sweep point is same as No. 8, but without the fingers. A splendid weeder.

Fig. 7 in cut is a cutter or sod land point. Very popular.

Fig 8 in cut is a potato digging attachment. Very effective for the purpose.

LIBERAL DISCOUNT TO THE TRADE.



SIZES AND PRICES OF PLOWS.

HAMPTON BOY.

Similar in size and shape to Boy Dixie and Boy Clipper, but has a higher standard, which makes it less liable to choke. Its beam adjustment is simple and complete. It can be quickly changed from a light truck plow to a medium, and even a large one-horse plow, by using the large moulds. Scraper and Potato Points are also fitted to this plow, thus covering almost every detail of farm work. The wood work is handsomely painted, lettered and varnished.

Price with truck mould board, wrench and point..... **$2.50**

HAMPTON No. 1 REGULAR.

This style is similar to the Boy, but larger. Attachments are: truck mould board, point and wrench.

Price complete..... **$3 00**

HAMPTON No. 5.

This is a medium two horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired, extra. Price, plain plow..... **$5.75**

—— LIBERAL DISCOUNT TO THE TRADE.——

Casting on all Hampton Plows..... Price, plain 4c.; polished 5c.

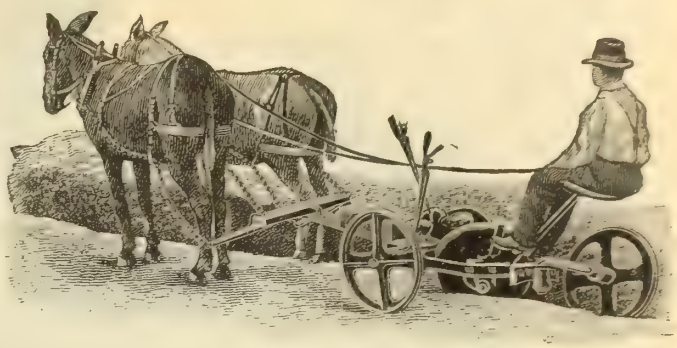
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Chattanooga-Hancock

THE LATEST IMPROVED DISC PLOW

For two or three horses, according to furrow turned. Much lighter draft than any other Disk Plow. Steel Frame. Double Levers. Weight, 550 pounds. Turns corners either right or left hand.

PRICE, - - - - - $40.00.

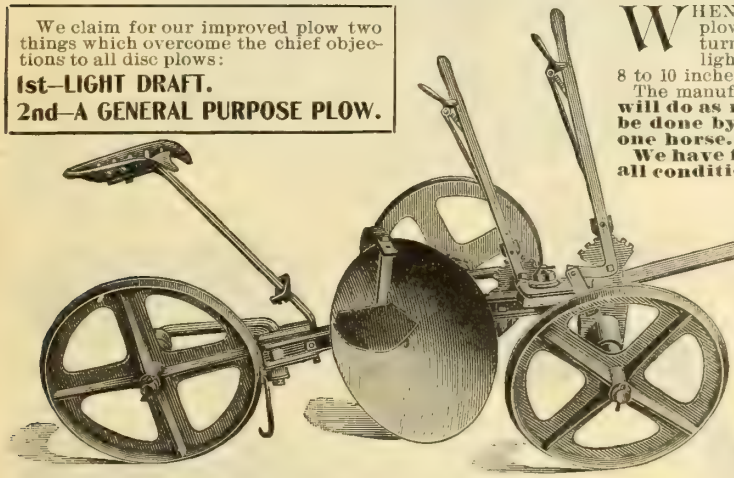


The Hancock Disc Plow was first in the field. It is the best representative of the disc principle in plowing. Heretofore disc plows have only been successful in either very hard or sticky land. They have lacked esssential features to make them popular or valuable to the average farmer. Improvements have been added to the Hancock Disc Plow, and we now offer it on its merits.

We claim for our improved plow two things which overcome the chief objections to all disc plows:

1st—LIGHT DRAFT.

2nd—A GENERAL PURPOSE PLOW.



WHEN the ground is in such condition that practical farmers do plowing, our Improved Disc Plow is light draft for two horses turning a furrow 12 inches wide and 6 to 8 inches deep, and it is light draft for three horses turning a furrow 14 inches wide and 8 to 10 inches deep.

The manufacturers claim that **the Chattanooga-Hancock Disc Plow will do as much work and do it better with two horses than can be done by any other disc plow with three horses, thus saving one horse.**

We have found that it is impossible to do the best work under all conditions with one form of disc. For the same reason it is necessary to use "common" and "deep suction" shares on moldboard plows to do good work under all conditions. This plow is therefore arranged for the use of two kinds of discs instead of one. Disc No. 1 to be used when the ground is moist, sticky or in good plowing condition. Disc No. 2 to be used when the ground is dry and hard, with stubble, weeds or trash to be turned under. By this arrangement each purchaser gets without extra charge TWO DISCS with his plow, giving him double service and much better work.

We recommend the improved disc plow to do good work not only in hard, dry and sticky ground, but to do good work in any fallow ground either clean or trashy; in short, to be good anywhere, at any time, when plowing can reasonably be done.

We also warrant against breakage for 12 months caused by original defects in material or workmanship.

Chattanooga-Hancock Disc Plows can be bought from our regular agents, or, where we have no agent in our territory, direct from us. Prices and terms on application. Correspondence solicited and promptly answered.

DIRECTIONS:

Regulate width of furrow by hitch at end of tongue, same as for walking plows. For two horses, hitch in first or second hole on right hand side; for three horses, hitch in first or second hole on left-hand side, looking from the rear of the plow. If more variation is necessary, loosen and slip square axle across tongue.

To make first furrow throw levers forward to first or second notch.

Regulate depth of furrow by levers. Generally have levers set so that the front of the plow will be level. Sometimes it will be found best to have one side lower than the other to give disc proper angle, especially on hillsides.

Set scraper barely to touch the disc. Screw up the nut on top scraper bolt with thumb and fingers, and then tighten slightly with wrench. If made too tight the scraper will cut the disc and cause unnecessary friction. By tightening the set screw at top of scraper arm, draw the back end of scraper slightly away from the disc, so that when the pressure of the dirt comes against the scraper, it will barely touch the disc. After the scraper is properly adjusted, make nut on top scraper bolt tight. Keep all other nuts very tight. To turn under trash set the scraper low down. In very sticky ground set scraper straight up. The kind of furrow turned depends on way scraper is set. Make the lower edge of scraper fit the disc. If necessary, bend the edge of the scraper with the wrench.

Turn plow left to make square corners. Turning to the right makes round corners. In turning to the left, drive as far out as you can without dropping left-hand wheel into the furrow. Then turn the team square around without moving forward until the complete turn is made.

The king bolt at rear end of tongue is properly tightened at the factory. To take up wear in this joint, screw up tight as possible and slack off a quarter of a turn.

When using No. 2 disc put the wedge in between box and beam, with thin end forward, so as to throw front edge of disc toward the land. This disc will not take enough land without wedge.

When using No. 1 disc do not use wedge.

The plow is intended to cut not less than 12 inches wide with three horses, or less than ten inches wide with two horses, and can be made to cut more if desired, according to condition of ground.

Weight of driver is necessary when ground is hard, but not necessary when ground is in good condition.

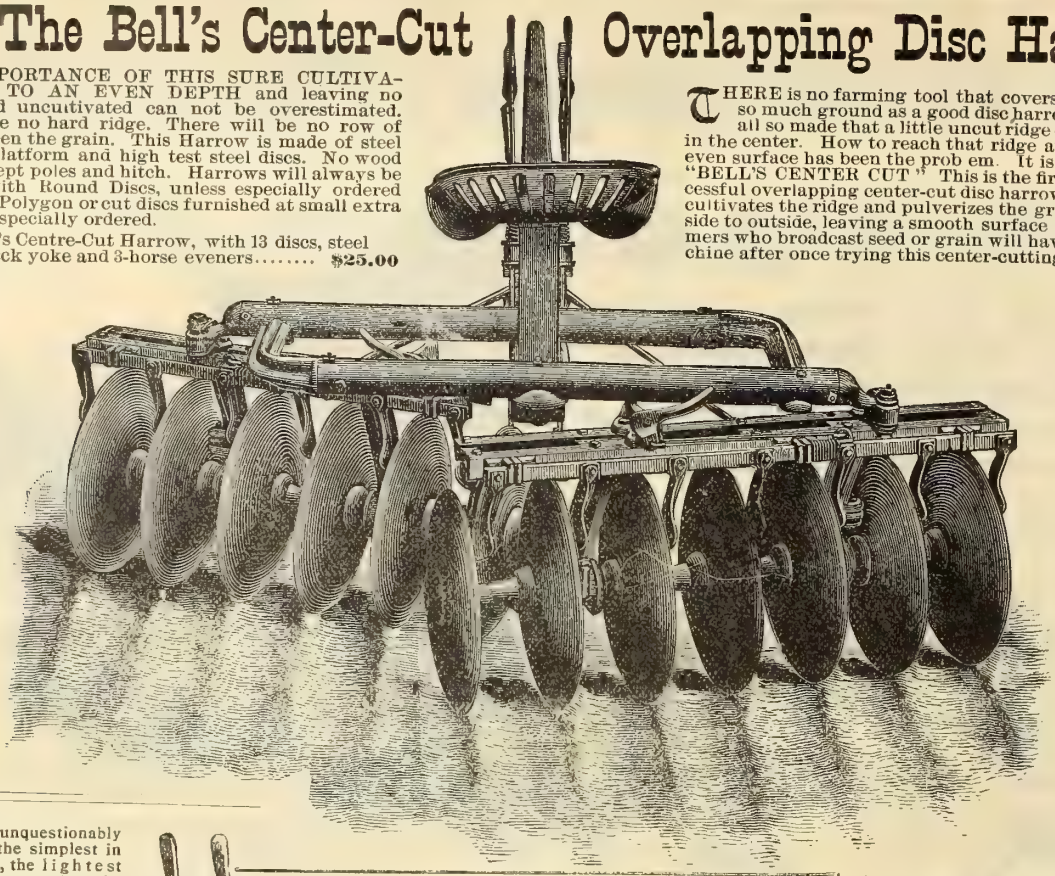
The draft on the team and the life of the plow depend on keeping the bearings well oiled. Oil [illegible] day and more frequently with other oil. Oil wheels with axle grease. Keep disc sharp with [illegible]

The Bell's Center-Cut Overlapping Disc Harrow.

THE IMPORTANCE OF THIS SURE CULTIVATION TO AN EVEN DEPTH and leaving no ground uncultivated can not be overestimated. There will be no hard ridge. There will be no row of weeds between the grain. This Harrow is made of steel angles and platform and high test steel discs. No wood about it except poles and hitch. Harrows will always be furnished with Round Discs, unless especially ordered otherwise. Polygon or cut discs furnished at small extra cost, when especially ordered.

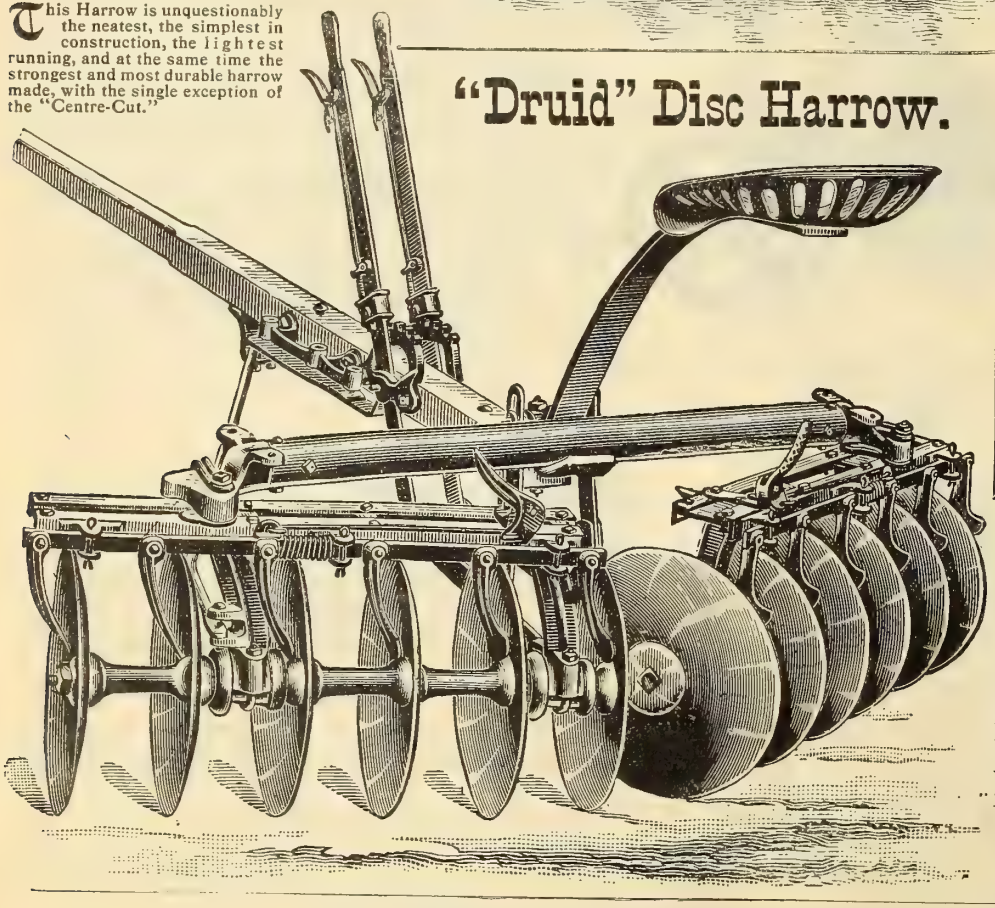
No. 1. Bell's Centre-Cut Harrow, with 13 discs, steel frame neck yoke and 3-horse eveners..... **$25.00**

THERE is no farming tool that covers and cultivates so much ground as a good disc harrow, but they are all so made that a little uncut ridge of ground is left in the center. How to reach that ridge and cultivate an even surface has been the prob em. It is now solved by "BELL'S CENTER CUT" This is the first and only successful overlapping center-cut disc harrow. This harrow cultivates the ridge and pulverizes the ground from outside to outside, leaving a smooth surface behind it. Farmers who broadcast seed or grain will have no other machine after once trying this center-cutting harrow.



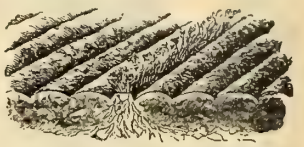
"Druid" Disc Harrow.

This Harrow is unquestionably the neatest, the simplest in construction, the lightest running, and at the same time the strongest and most durable harrow made, with the single exception of the "Centre-Cut."



GOOD CULTIVATION.

Cut showing soil as pulverized by the Bell's Center-Cut when the gangs overlap, leaving no part uncultivated, and leaving a perfect seed bed.



Cut showing soil as pulverized with old style Harrow, when the gangs abut, but do not overlap, showing a center row of weeds and soil uncultivated.

THIS Harrow is made of steel angles, extra heavy crossbeam of steel-tubing. No wood about it but the tongue and the hitch. It has many advantages over the wood frame Harrow, and, in addition, will last longer. While almost any disc harrow will do fair work under the most favorable circumstances, only the BEST will stand the test at all times and under all the various conditions of soil. The cut shows the Harrow up in excellent shape, giving the construction in detail, including the most perfect set of gang scrapers made. Furnished with neck yoke and whiffletrees.

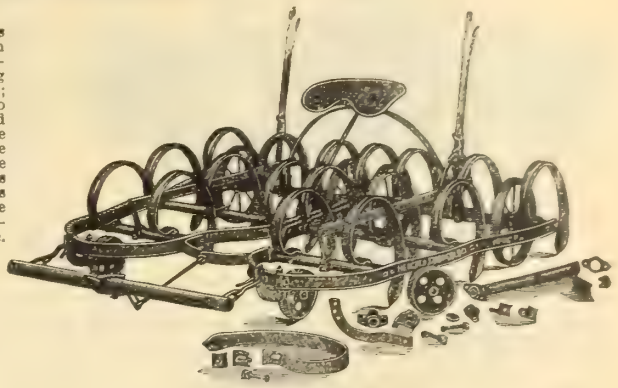
No.	Disc.	Inches.	Ft. of Cut.	Price.
00	8	16	4	**$21.00**
0	10	16	5	**22.00**
1	12	16	6	**23.00**

Can also furnish a cheaper line of Disc Harrows

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Hench & Dromgold Improved Walking or Riding Spring Tooth Lever Harrow, on Wheels.

IT is an established fact that land prepared by a Spring Tooth Harrow for wheat, is the most acceptable and common-sense method, but the complaint of some has been heavy draft. Now, to meet that objection, a set of wheels has been added; consequently the draft is lessened almost one-half a horse less than on the float spring tooth harrow; fifteen inches can be worn off the teeth by the use of the lever and the ratchets; the slat can be removed in a second; the lever can be attached to the middle rollers, if so desired, when used altogether for riding; and the wheels, when the teeth are set the desired depth, prevent its going deeper than required by the operator, and consequently it cuts the same depth in case soft or hard ground is encountered alternately. The front wheels are pivoted and the evener is attached to the pivoted wheels, so that the harrow will draw at ease after the horses, causing it to draw straight, each tooth cutting its own course or way. It is also admirably adapted to putting corn land in condition for seeding wheat, as the depth is easily and immediately regulated by the lever. It is pivoted in the centre, and can be uncoupled in a moment without the use of bolts or split keys, and can then be used as a one-horse harrow, which makes it quite convenient, either half being adjusted with perfect ease.



SPECIAL DISCOUNT FOR CASH.

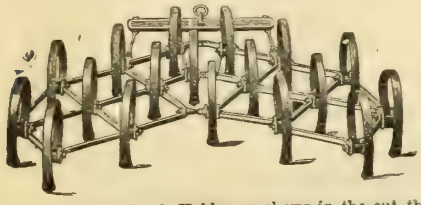
Fifteen Tooth Harrow, without seat	$15.50
Seventeen Tooth Harrow, without seat	16.50
Nineteen Tooth Harrow, without seat	17.50
Twenty-one Tooth Harrow, without seat	18.50

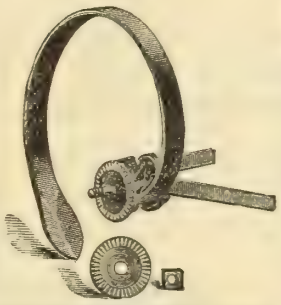
(If seat is wanted, price will be 75 cents extra.)

Hench & Dromgold All Steel Frame Spring Tooth Harrow.

SPECIAL DISCOUNT FOR CASH.

14 Tooth Harrow	$12.50
16 Tooth Harrow	12.50
18 Tooth Harrow	13.50
20 Tooth Harrow	14.50
22 Tooth Harrow	15.50

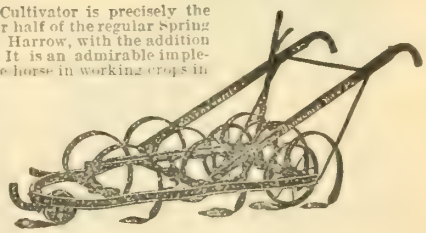




In the Ratchet Tooth Holder, as shown in the cut, the tooth is securely clamped between two malleable ratchet clips, which engage with the ratchet frame clip, and is held firmly and securely by one bolt to each tooth, on which it rotates as on a pivot. By this arrangement, if the teeth are worn off or cut off as much as fifteen inches, they can be set to run as deep as when new. It is so hinged that either side can be raised straight up or at right angles, for passing stumps or trees.

Daisy Cultivator on Wheels.

THIS Style of Cultivator is precisely the same as either half of the regular Spring Tooth Wheel Harrow, with the addition of handles. It is an admirable implement for use with one horse in working crops in rows. We can furnish anyone having the regular harrow a set of handles and braces, and they can be attached to either half. The front wheel is pivoted, and will draw with ease after the horse, causing it to draw straight. The wheels guide it and cause it to run steady, and each tooth will cut its own way. For turning at the ends the teeth can be raised by the use of the lever, and is very easy to operate. The frame is made of "I" Beam steel; the rollers or bars are also of steel, the castings being malleable, and the best steel used in our teeth, makes it one of the most durable and complete cultivators or small harrows ever offered to the public. We solicit your patronage.

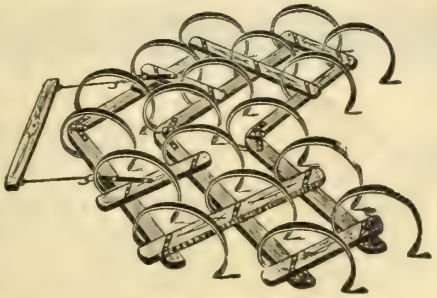


RETAIL PRICE.

7 tooth	$7.75	10 tooth	$8.50
8 tooth	8.50	11 tooth	16.25
9 tooth	9.00		

Perry Wood Frame Harrow—Iron Clad.

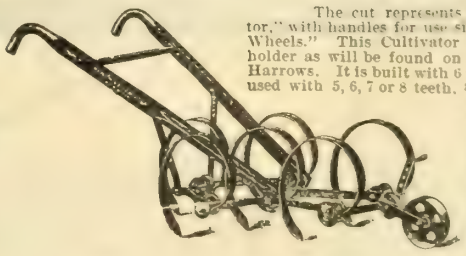
THIS is, without doubt, one of the best Float Harrows on the market, and our very large sales during the season just passed testify to this fact. It is particularly desirable in cloddy ground, as it combines a clod crusher and spring-tooth harrow, the frame being iron-plated underneath and in front, so that it crushes the clods at the same time the teeth stir up the ground, and the frame prevents it sinking too deep. Bolt heads fully protected. Teeth cannot get loose. Simplicity itself, and very strong.



16 Tooth Harrows	$9.50	18 Tooth Harrows	$10.50
20 Tooth Harrows	11.50	22 Tooth Harrows	12.50

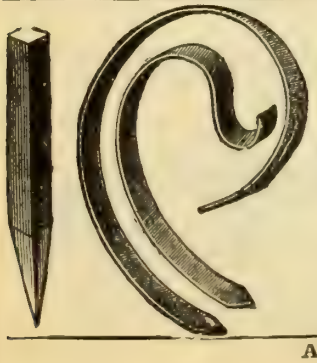
SPECIAL DISCOUNT FOR CASH.

"Daisy" Cultivator.



The cut represents the "Daisy Cultivator," with handles for use similar to the "Daisy on Wheels." This Cultivator has the same ratchet holder as will be found on all of this make of Harrows. It is built with 6 or 8 teeth, but can be used with 5, 6, 7 or 8 teeth, as desired. By simply unbolting the two outside teeth of the 6 tooth Cultivator, it can be used with 4 teeth, and by taking out the middle tooth on the right hand side, and setting the rear tooth in the centre, it makes a 5-tooth Cultivator.

Price of 6-tooth Cultivator, with wheel	$5.00
Price of 8-tooth Cultivator, with wheel	6.00
Price of 10-tooth Cultivator, with wheel	7.25



Spring Harrow Teeth.

For Leading Harrows including Hench & Dromgold, Stevens, Perry, Childs, U. T. K., Tiger, Buffalo, Pitts, etc., etc.

PRICE, 30 CENTS EACH.

When taken in full sets a special price.

SPIKE HARROW TEETH AT LOWEST PRICES.

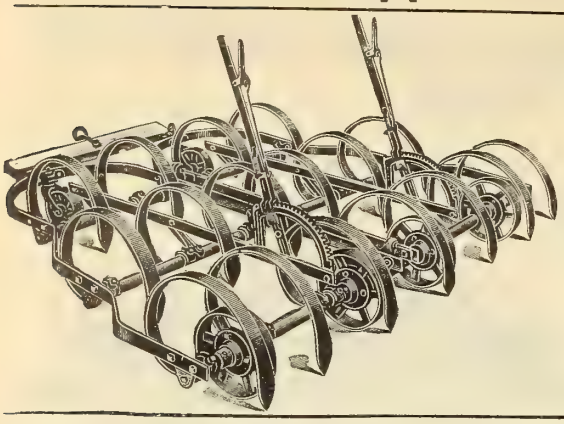
Whipple's Supplementary Adjustable Harrow Tooth Points.

Old Harrows made as good as new at small expense.

These points are made of a high grade of steel and will outwear the original points. The ears extend back and the point being made of spring metal, allows the ears to be drawn together, clamping the shank firmly, and if the [illegible] points, being adjustable, can be lined up, so that every tooth will [illegible]. These points will fit any of the old Spring Teeth on the market.

Price, point, 12 cents each.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



BALTIMORE SPRING TOOTH LEVER WHEEL HARROW.

THIS HARROW is constructed with five pipe bars, to which are attached the Improved Self-Sharpening Teeth. These teeth are serrated a distance back from the point, which allows the tooth after being worn to a certain point to assume a new cutting edge. The illustration shows the method of attaching the tooth to the bar. The strain comes directly against the side of the bolt, lessening the liability of breakage. The tooth is held securely in position by the Malleable Friction Clamp, which also prevents the loosening of the nut. The slotted hole allows an adjustment of four inches at the point of the tooth. In this manner of fastening the liability of breakage of teeth is reduced to a minimum, as the strain of the teeth simply increases or decreases the curve or circle without damage

The wheels on the rear end of the frame revolve on journals around the cross bar, while those on the front are caster wheels. The CHILLED BOXES and JOURNALS of these wheels are renewable.

15 Tooth, 2 Sections, complete.....**$15.50**
17 Tooth, 2 Sections, complete..... **16.50**

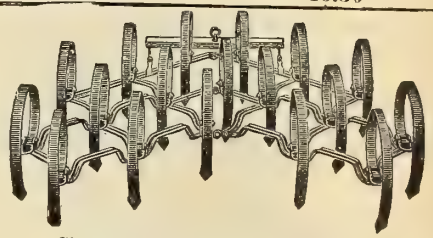
STEVENS' SPRING TOOTH HARROWS.

Perfect Tooth Clip. Pitch Changed by loosening one bolt. Clears itself. Cannot clog. Folds compactly.

—— PRICES: ——

Fourteen and Sixteen Tooth Harrows..... **$13.00**
Eighteen Tooth Harrows.... ..... **14.00**
Twenty Tooth Harrows..... **15.00**
Twenty-two Tooth Harrows.. ..... **16.00**

☞Special discount for cash.

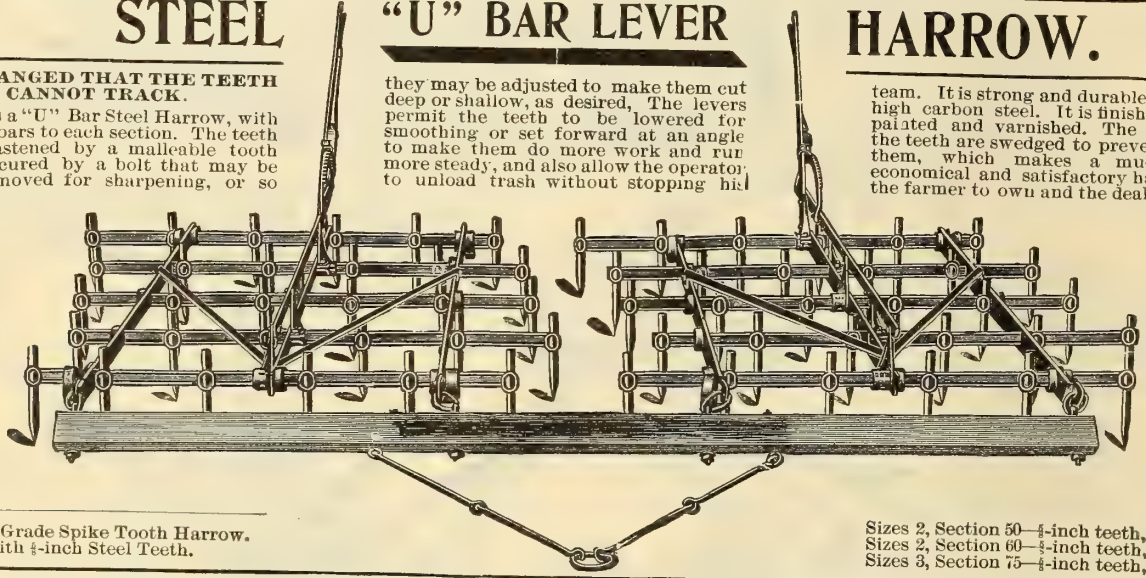


STEVENS' ARCHED FRAME.

STEEL "U" BAR LEVER HARROW.

SO ARRANGED THAT THE TEETH CANNOT TRACK.

THIS is a "U" Bar Steel Harrow, with five "U" bars to each section. The teeth are so fastened by a malleable tooth holder secured by a bolt that may be easily removed for sharpening, or so they may be adjusted to make them cut deep or shallow, as desired, The levers permit the teeth to be lowered for smoothing or set forward at an angle to make them do more work and run more steady, and also allow the operator to unload trash without stopping his team. It is strong and durable; made of high carbon steel. It is finished nicely, painted and varnished. The heads of the teeth are swedged to prevent losing them, which makes a much more economical and satisfactory harrow for the farmer to own and the dealer to sell.



A High Grade Spike Tooth Harrow. With ⅝-inch Steel Teeth.

Sizes 2, Section 50—⅝-inch teeth, **$10.00**
Sizes 2, Section 60—⅝-inch teeth, **11.25**
Sizes 3, Section 75—⅝-inch teeth, **14.50**

ADJUSTABLE TUBULAR FRAME LEVER HARROW.

THIS HARROW can be used as a straight-tooth pulverizing Harrow, or a straight-tooth smoothing Harrow. By means of the Lever the teeth can be set straight or to any desired slant. The beams are made of iron tubes and the teeth pass through the same and are threaded and held firmly in place by a tap. If stalks and trash accumulate on the teeth when used as a straight-tooth Harrow, the teeth can be changed in a moment, by means of a Lever, to a standing position, for clearing off the same. As a smoothing Harrow it never clogs, all rubbish being cut in two or passing down and off the ends of the teeth and completely buried. For cultivating young corn in its early stage it is admirably adapted. Specially adapted to cultivating wheat in the spring.

Price, with 50 Teeth.....**$11.00** ☞Special discount for cash.

GARDENER'S HARROW.

THIS Harrow is similar to the Baltimore Double-Hinge Harrow, only it is made in one section instead of two. It is just the thing for small, hilly farms, or for market gardeners. It is designed to be used by one horse, and is the essence of convenience in handling and getting around in small garden plots, etc. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 24 teeth, cutting 3 feet 8 inches wide.

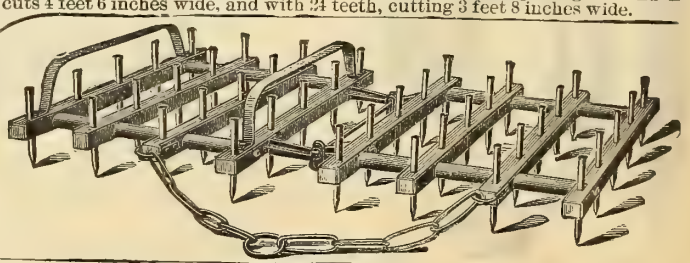
Price, with 24 teeth..... **$5.00**
With 30 teeth..... **5.50** Special discount for cash.

Baltimore Double-Hinge Harrow.

THIS is a two section, wood frame, spike-tooth Harrow. It is so coupled that each section has a vibratory motion, independent of the other. It is simple and durable. The frame is of hard wood, nicely finished and painted. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another; the value of this feature any good farmer will appreciate.

It cuts 6 feet 6 inches, and contains 40 teeth.

Price, **$8.00** Special discount for cash.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore. Established 1860.

STEEL RAKES.

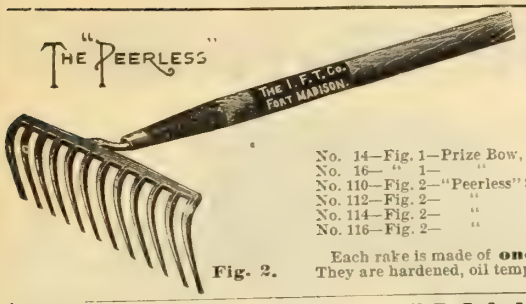


Fig. 2.

		Retail Price.
No. 14—Fig. 1—Prize Bow, Braced Rake, Solid Steel,	14 teeth	65c. each.
No. 16— " 1— " " "	16 "	70c. each
No. 110—Fig. 2—"Peerless" Shank "	10 "	45c. each.
No. 112—Fig. 2— " " " "	12 "	50c. each.
No. 114—Fig. 2— " " " "	14 "	55c. each.
No. 116—Fig. 2— " " " "	16 "	60c. each.

Each rake is made of **one piece** of solid steel; no iron, no welding. They are hardened, oil tempered and beautifully finished.

Fig. 1.

MALLEABLE RAKES.

	Retail Price.
No. 010—Heavy Single Shank, Malleable Rake	20c. each.
No. 012— " " "	25c. each.
No. 014— " " "	30c. each.
No. 016— " " "	30c. each.
No. 0012— " Braced Shank, "	30c. each.
No. 0014—Heavy Braced Shank, Malleable Rake	35c. each.
No. 0016— " " "	35c. each.
No. 1—Solid Steel Turf Edger	50c. each.
No. 30—Steel Thistle Dock Cutter	50c. each.

POTATO AND MANURE HOOKS.

Retail pri

No. F 04—Flat Oval Four Tine, Solid Steel Potato Hook
No. J M 4—Extra Heavy, Four Angular Tine, Jumbo Potato Hooks "
No. S M 4—Oval, Four Tine Manure Hook or Drag "
Regular Pattern Corn Hooks, not adjustable, 20c. each. Pat. Folding Corn Hooks, with serrated edge, 35c. each. Clipper Corn Knives, each.
Garden Sets 3 pieces, 5-T Rake, Shovel and Hoe. $1.00 set.

THE BOSS GARDEN RAKE.

(Strong, All Steel, Tinned, Cheap.)

Fig. 3—No. 18—15¾ inch Head, 18 Steel-pointed Teeth ..... 40c.
Boss 6-Tooth Weeder ..... 25c.

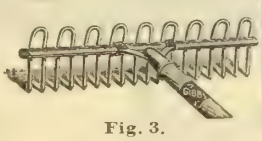


Fig. 3.

Fig. 4.

QUEEN STEEL GARDEN RAKE.

Neat, Strong and Durable, Bright Finished, Twisted Teeth.

Fig. 4—14 Teeth.
16 Teeth

QUEEN ALL-STEEL LAWN RAKE.

Reversible, Heavily Tinned.

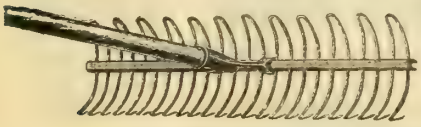


Fig. 5.

Fig. 5—In this Rake there is no opening in front or back of head in which to collect dirt. As can be seen by the shape of the teeth, they run smooth and will not dig in the sod. The steel head of this Rake is in the form of an egg-shaped tube, with the greatest width in the line of strain, which is the stiffest form possible, and, being closed, will not collect dirt in the head. The teeth being bent at the points, makes the Rake run smooth, and will not tear the soil. By reversing, the double teeth are used for leaves and rubbish.

21 inch head, 24 teeth ..... 50c.

AUTOMATIC SELF-CLEANING RAKES.

LAWN RAKES.

Fig. 6.—A backward motion of the Rake from the operator will clean all the teeth at once, thus avoiding the disagreeable task of cleaning the teeth with the fingers. The teeth are made of the best hickory, and will not tear the sod or grass.

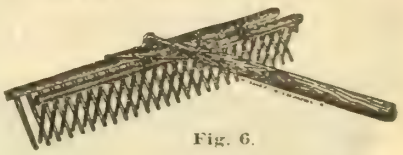


Fig. 6.

With 22 teeth ..... "
With 26 teeth ..... "
Lawn King Rake, with 22 teeth ..... "

We carry the Iowa Farming Tool Co.'s line of **Celebrated Steel Goods**, embracing a full assortment of Hoes, Forks, Rakes, etc. They are well known for their superior quality and finish, and beauty of design. All made of best material obtainable, and severely tested.

"Champion," Silver Polish.

Fig. 8.

Damascus Temper.

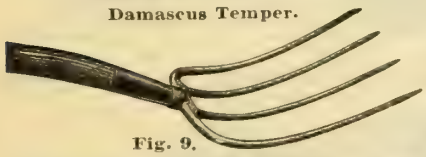


Fig. 9.

Silver Polish, Damascus Temper.

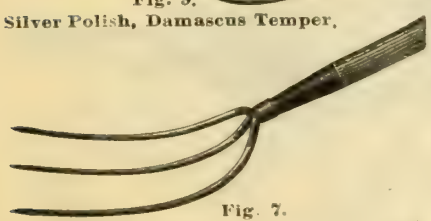


Fig. 7.

Fig. 12.

HAY FORKS.

	Retail Price.
No. 026—Two tine Hay Strap Ferrule, straight handle	50c. each.
No. 26—Two tine Hay, common or plain, straight handle	45c. each.
No. 035½ — Fig. 7, Three tine Hay, strap, straight handle	60c. each.
No. 35½—Three tine Hay, common or plain, straight handle	50c. each.

7 or 8 foot Handle Forks extra.

MANURE FORKS.

	Retail Price.
No. C 044½—Fig. 8—"Champion" Four tine Manure, long handle strap ferrule	70c. each.
No. C 04 D—"Champion Four tine Manure, Mall. D handle strap ferrule	70c. each.
No. 404½ Fig 9—Four tine Manure, long handle, strap ferrule	70c. each.
No. C 44½ Four Tine Manure	55c. each.
No. 44½—Four tine Manure, long handle, common ferrule	50c. each.
No. 40 D—Four tine Manure, Mall. D handle, strap ferrule	75c. each.

We carry some special heavy Manure Forks not listed here.

SPADING FORKS.

	Retail Price.
No. 8 D—Fig. 10—"Columbia" Solid Socket, ang. tine, heavy Mall. D handle	$1.00 each
No. J. O. W.—Fig. 11—"Jumbo" extra heavy ang. tine wood D handle strap Ferrule	1.00 each.
No. L ½ O D—Medium weight, ang. tine Mall. D handle, strap ferrule	80c. each.
No. B 4—Boys' four tine	50c each
No. S 10—Fig. 12—Ten tine Scoop Shape, Mall D handle, strap ferrule	1.50 each.

Especially for handling Beets, Onions, Apples, Corn, etc. Tine points are flattened and rounded, so as not to injure Potatoes, etc.

No. 44—Coke Forks, 14 tine D handle strap ferrule	$2.00 each.
No. 101—Ten tine, D handle stone forks	1.75 each.

Special Prices in Quantities.

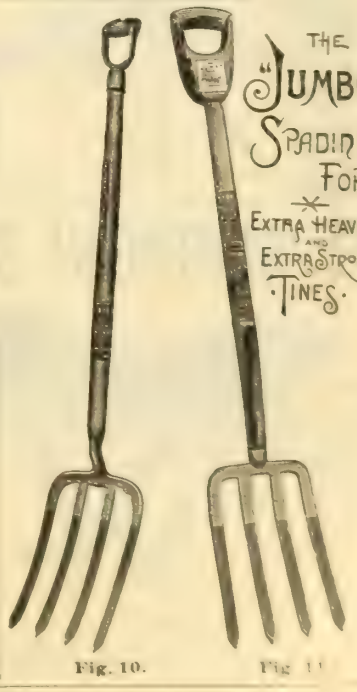
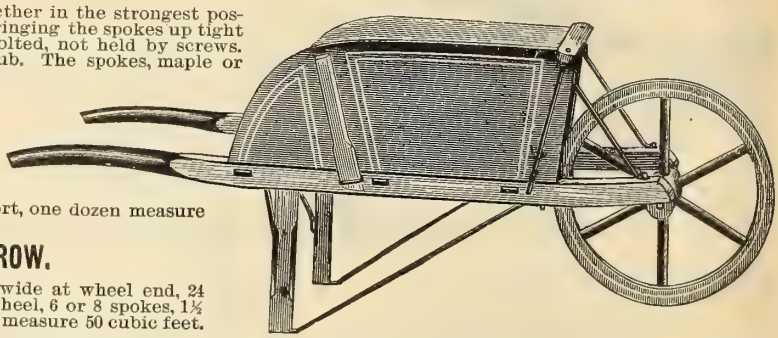


Fig. 10. Fig. 11

WE ALSO HAVE A CHEAPER GRADE OF ABOVE. PRICES ON APPLICATION.

Baltimore Garden Barrow.

THE wheels are of wood, with wood hub, and put together in the strongest possible manner. The tire is set by steam pressure, bringing the spokes up tight in every joint. Iron leg braces are thoroughly bolted, not held by screws. The wheels have iron bands shrunk on end of hub. The spokes, maple or beech, shaped, not turned.



No. 4, MEDIUM SIZE or MAN'S BARROW.

Inside measurement of box, 26½ inches long, 18½ inches at wheel end, 23 inches wide at handle end, 12 inches deep. Has 20 inch wheel, 6 or 8 spokes, 1½ inch tread, ½ inch gudgeon. Painted green or blue. Bottoms matched and glued. Nicely painted and striped. Packed for export, one dozen measure 45 cubic feet. Price, **$3.75.**

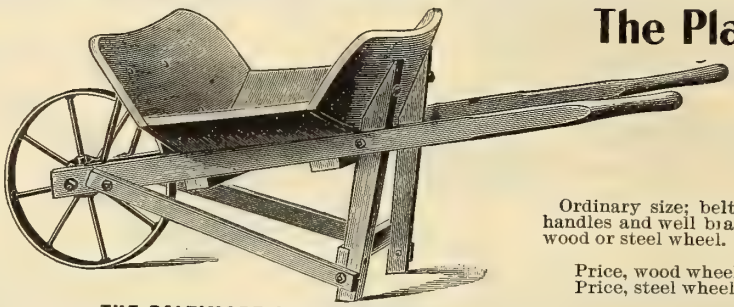
No. 5, LARGE SIZE or MAN'S BARROW.

Inside measurement of box, 28 inches long, 20 inches wide at wheel end, 24 inches wide at handle end, 12 inches deep. Has 22 inch wheel, 6 or 8 spokes, 1½ inch tread, ½ inch gudgeon. Finished as above. Packed, measure 50 cubic feet. Price, **$4 00.**

The Baltimore Canal Barrows.

Full sized tray, edges shared, bolted to legs, and well bolted and braced in front. Handles and legs of selected hardwood; wheels painted. Furnished in both wood and steel wheel.

Price, wood wheel **$2.25**
Price, steel wheel..... **2.50**



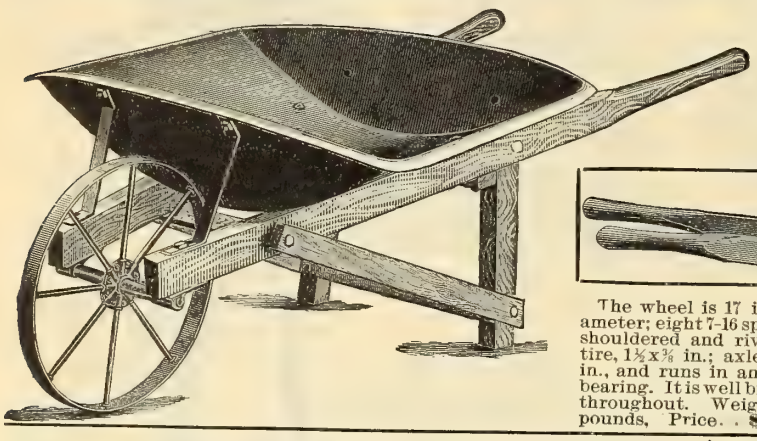
THE BALTIMORE CANAL BARROW.

The Plain Bolted Canal Barrows.

Ordinary size; belt tray; legs bolted to handles and well braced. Furnished with wood or steel wheel.

Price, wood wheel..... **$1.75**
Price, steel wheel..... **2.00**

WOOD FRAME Solid Pressed STEEL TRAY BARROW

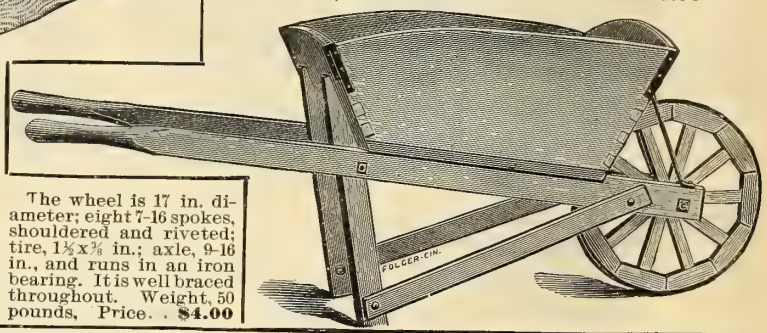


The wheel is 17 in. diameter; eight 7-16 spokes, shouldered and riveted; tire, 1½x⅜ in.; axle, 9-16 in., and runs in an iron bearing. It is well braced throughout. Weight, 50 pounds. Price. . **$4.00**

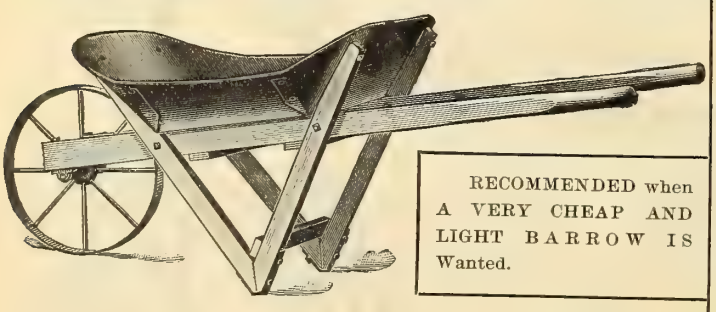
Coal and Mortar Barrow.

Top is iron banded, strongly braced and bolted; has large capacity.

Price, wood wheel..... **$3.50**
Price, steel wheel..... **3.75**



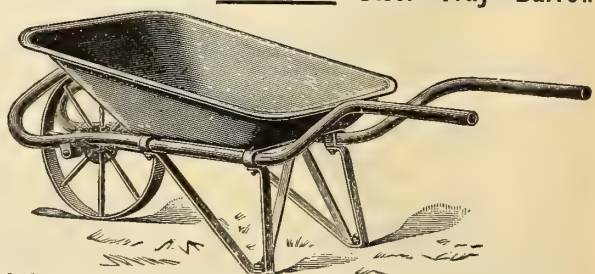
THE SOUTHERN STEEL TRAY.



RECOMMENDED when A VERY CHEAP AND LIGHT BARROW IS Wanted.

Price.....$3.00

Tubular Frame Solid Pressed Steel Tray Barrow.



A 4—Tray 16 gauge, steel; capacity 3 cubic feet; weight 58 pounds; wheel, 17 in. diameter; tire, 1½x⅜ in., eight ½ in. spokes, shouldered and riveted; axle, ⅝ in. For moving earth, ashes and light work. Price..... **$5.00**

B 5—Tray, 14 gauge, steel; capacity, 5 cubic feet; weight, 75 pounds; mounted on same frame and wheel as A 4. For general purposes and light running. It will stand hard usage. Price..... **$5.75**

Special Discount for Cash.

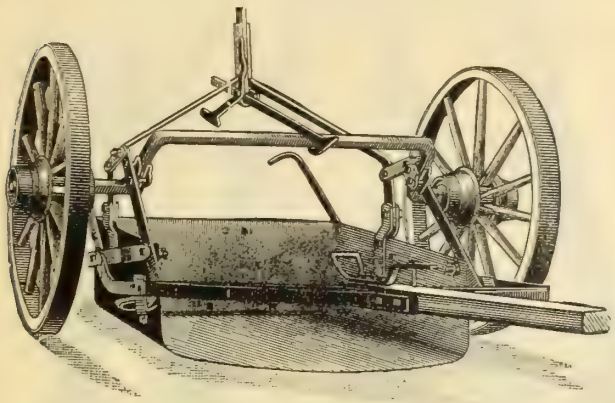
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore. Established 1860.

HASLUP PATENT WHEEL SCRAPER.

IT LEADS!

HOUNDS are doubled on tongue, strengthened by a system of braces and supports. The double hounds, joined by heavy p[illegible] set edgewise, passing through strong loop, extending around end of tongue, preventing twisting or sagging, permitting no fa[illegible] hooks on hounds c.tching on adjustable hooks on side of pan when lever is thrown forward for filling. Stationary hooks on ho[illegible] are strong and heavy, well braced and securely riveted.



ORDER BY NUMBER ONLY.
WE MAKE THREE SIZES.

No. 1—Capacity 9 cubic feet, weight 450 pounds.							Price....	**$27.50**
No. 2—	"	13	"	"	"	600	"	Price....	**35.00**
No. 3—	"	17	"	"	"	750	"	Price....	**42.00**

SPECIAL DISCOUNT FOR CASH.

Suggestions and Directions for Using Wheeler.

Always raise the Scraper out of the ground while the team is in motion. See that all the bolts on the Scraper are drawn up tight and all the bear ings kept well oiled.

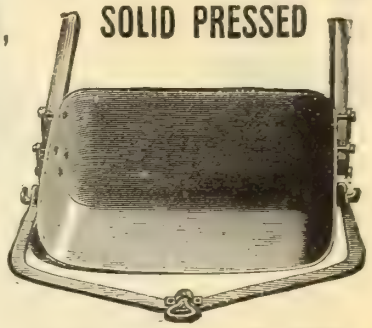
An ordinary team can work No. 2 size. The No. 3 size can be worked with one team, but to fill the Scraper well it needs an extra team in filling, and each No. 3 Wheeler is complete with a snatch rod. The snatch rod is placed under the double tree, practically taking all weight off the horses' necks.

To load, hold the lever in an upright position until the foot piece on the end of the lifting device comes in contact with the lug on the hounds. Raise on the handles of the scraper box until the point catches in the ground

The Scraper will run perfectly level and regulate the depth itself. When the Scraper is full, bear down on the lever until the hook catches on the back of the pan.

HASLUP ROUND BACK, DRAG SCRAPER.

SOLID PRESSED



No. 1—Carries 7 feet of earth, weight 90 pounds..**$6.00**

No. 2—Carries 5 feet of earth, weight 80 pounds..**$5.75**

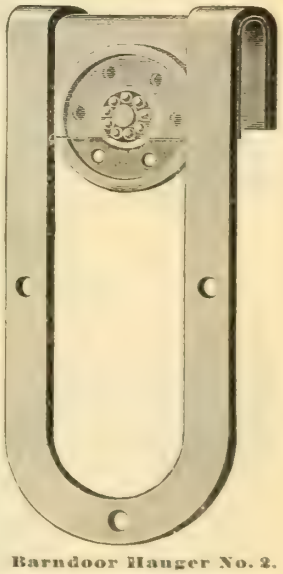
No. 3—Carries 3½ ft. of earth, weight 70 pounds..**$5.50**

Special Discount for Cash.

Special Prices in Quantities.

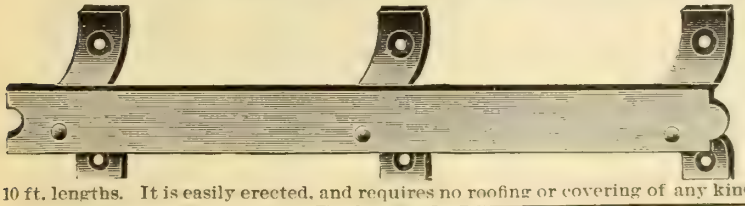
The Ney Anti-Friction Barndoor Hanger No. 2.

THIS Hanger is **Anti-Friction,** containing roller bearings, which cause the wheel to roll easily and prevent wear. The frame is made of special open hearth steel, and the strength is fully sufficient for the heaviest doors, and has hood protecting the wheel from snow and ice. The wheel is 4 inches in diameter, and of standard thread, therefore can be used on other tracks. Price per pair..... **75c**



Barndoor Hanger No. 2.

The Ney Steel Barndoor Track.



THIS Track is made of **Special Carbon Open Hearth Steel,** 1x3-16 stock, and has heavy brackets well and substantially riveted to it at every 12 inches. The ends are made with tongue and groove to match. The track is made in 4, 6, 8 and 10 ft. lengths. It is easily erected, and requires no roofing or covering of any kind. Price per 100 ft... **$5.00**

DECARBONIZED METAL FARM BELLS.

Diameter of Bell.	Weight Complete.	List Price, Bronzed.	Retail Price, Bronzed.
No. 1.....	11	40 lbs.	$4.00	$2.00
No. 2.....	15	50 "	5.00	2.50
No. 3.....	17	75 "	7.50	3.75
No. 4	20	100 "	10.00	5.00

Above prices include bell and hangings complete.

STAY ROLLERS,

For Use on Barn Door Hangers.

Price, Each, 10c.

PORTABLE SCALES.

THEY are carefully adjusted by competent workmen and are guaranteed accurate United States Standard Scales.

The material throughout is of the same quality as is used in the highest priced goods. The brass work is highly polished, the iron work is japanned in black, and the wood work is finished in its natural color, making a very attractive combination.

They are carefully packed for shipment and [illegible] set in position ready for use in a few minutes.

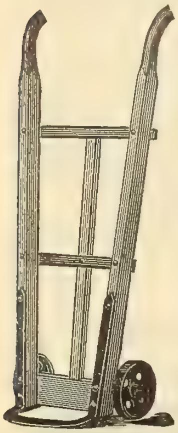
SIZES AND PRICES:

600 Pounds—Size of Platform **16x23**.....	**$12.50**
800 Pounds— " " **16x24**.....	**14.50**

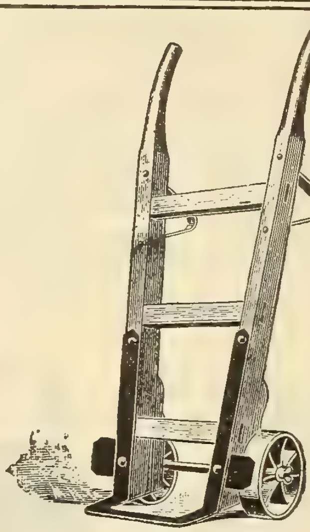
Special Discount for Cash.

ALL KINDS OF MACHINERY REPAIRED.

STORE TRUCKS.

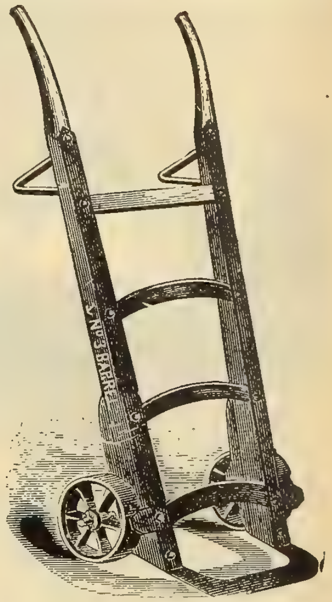


BALTIMORE STORE TRUCK.



NEW YORK PATTERN.

COTTON TRUCK.



NEW YORK BARREL TRUCK.

BALTIMORE STORE TRUCK.

BEST LIGHT TRUCK MADE FOR THE MONEY.

List Price.. ..$4.00
Retail Price..... .... 2.00

NEW YORK PATTERN.

HALF STRAPPED.

	List Price.	Retail Price.
No. 0....	$ 4.40	$ 2.60
" 1....	4.60	2.70
" 2....	6.10	3.65
" 3....	8.00	4.80
" 4....	9.50	6.00
" 5....	11.50	6.90

FULL STRAPPED.

	List Price.	Retail Price.
No. 0....	$ 5.15	$ 3.10
" 1....	5.35	3.80
" 2....	7.10	4.25
" 3....	9.00	5.40
" 4....	11.00	6.60
" 5....	13.50	8.10

NEW YORK PATTERN.

	Length Handles.	Width Nose.	Width at Upper Bar.	Diameter Wheels.	Weight.
No. 1—	4′ 0″	12½″	18 ″	8 ″	42 lbs.
" 2—	4′ 5″	14 ″	19½″	9½″	44 "
" 3—	4′ 8″	15 ″	21 ″	9½″	72 "
" 4—	5′ 0″	16 ″	22½″	11 ″	85 "
" 5—	5′ 3″	17 ″	24 ″	11 ″	90 "
" 6—	5′ 9″	20 ″	23½″	12 ″	125 "

COTTON TRUCKS.

	List.	Retail.
No. 3	$ 9.00	$5.40
" 4	11.00	6.60
" 5	13 50	8.10

	Length of Handles.	Width of Nose.	Width at Upper Bar.	Diam. of Wheels.	Weight in Pounds.
No. 3........	4′ 10″	15½″	21 ″	9½″	74
" 4........	5′ 0″	16 ″	23 ″	11 ″	104
" 5........	5′ 3″	18 ″	22 ″	10 ″	95
" 6........	5′ 9″	20 ″	23½″	12 ″	125

NEW YORK BARREL TRUCKS.

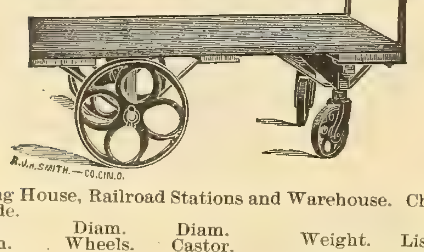
	List.	Retail.
No. 1	$ 7.00	$4.20
" 2	9.00	5.40
" 3	10.50	6.30
" 4	12 50	7.50
" 5	15.00	9.00

	Length of Handles.	Width of Nose.	Width at Upper Bar.	Diam. of Wheels.	Weight in Pounds.
No. 1........	4′ 0″	12″	17½″	7 ″	42
" 2........	4′ 6″	14″	18½″	8 ″	53
" 3........	4′ 7″	15″	20½″	9 ″	76
" 4........	5′ 0″	16″	21 ″	9½″	95
" 5........	5′ 3″	18″	22 ″	10 ″	125

DIMENSIONS AND PRICES CAST IRON TRUCK WHEELS.

	Pounds Weight.	Height Inches.	Face Inches.	Hub Inches.	Bore Inches.	Retail Price, Each.	List Price, Each.
No. 0	4½	6½	1½	2¼	¾x⅞	$ .27	$ .36
No. 1 and 2	7¼	8	2	2⅞	¾x⅞	.44	.58
No. 3	12¾	9½	2½	3¼	⅞x1	.76	1.02
No. 4 and 5	17½	11	3	3¾	1x1⅛	1.05	1.40
Heavy	25	12	3	3¾	1x1⅛	1.50	2.00

FOUR WHEEL PLATFORM TRUCK.



For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.

	Size. Platform.	Diam. Wheels.	Diam. Castor.	Weight.	List.	Retail.
No. 1—	2x4 feet	12 in.	6 in.	120 lbs.	$20.00	$15.00
" 21—	3x5 feet	18 in.	9 in.	200 lbs.	28.00	21.00

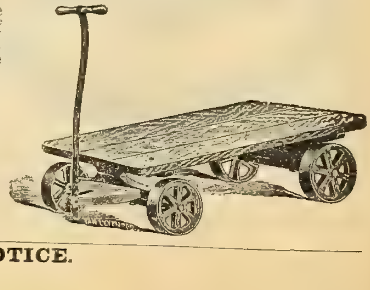
PLAIN PLATFORM TRUCK.

	Size of Platform.	Weight.	Diam. Wheels.	List.	Retail.
No. 82—	2 ft. 4 in. by 3 ft. 4 in.	100 lbs.	7½ in.	$14.00	$8 00
" 83—	2 ft. 6 in. by 3 ft. 6 in.	115 lbs.	7½ in.	15.00	9.00
" 84—	3 ft. by 4 feet	125 lbs.	8½ in.	17.00	10.50

We are prepared to quote special prices on Trucks of every description. If you want anything special write us for prices.

CAN FURNISH SPECIAL TRUCKS AT LOWEST POSSIBLE PRICES. ALSO TRUCK WHEELS.

Prices on application.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Hay Track Carriers and Fixtures.

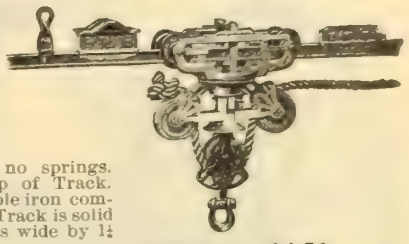
Ney's Patent Improved Swivel Reversible Hay Carrier.

FOR DOUBLE ANGLE STEEL TRACK.

THIS Carrier possesses the following advantages: It will not pass the bumper or trip block while in operation The lock is positive and cannot fail to work perfectly. It is entirely independent of the rope, automatic in its movements, and has neither springs, clutches nor lugs to break, wear out or get out of order. Track travelers and rope pulleys revolve on turned iron bushing.

Price, - - $4.50

Myers Haymaker Carrier for Steel Track.



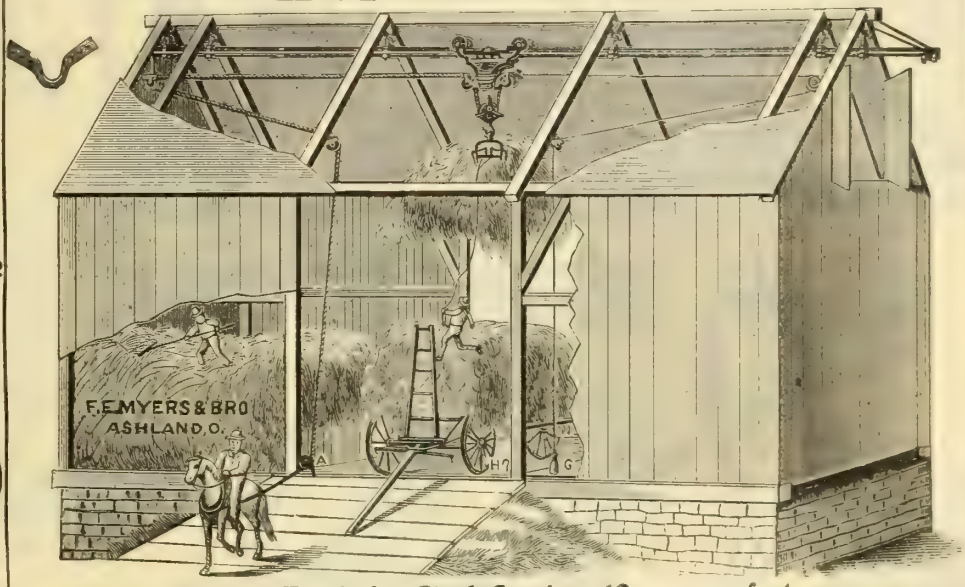
THIS Carrier is known as a combination machine, or a swivel and reversible both in one. It is constructed with straight flanged wheels, bored on lathe, so as to run true, which revolve on a ¾-in. turned steel axle. It has a Positive Force Lock with no springs. Stop is clamped to Top of Track. Hanging Hook is malleable iron composed of two parts. The Track is solid steel. 1-beam, 2 1-16 inches wide by 1¾ inches deep.

Price, - - - $4.50

Fig. 1 Fig. 2

Fig. 3 Fig. 4

HAY CAR IN USE.



Price of Track for Steel Carrier, 12 c. per foot.

Fig. 5

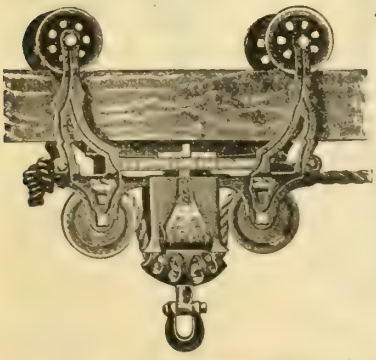
Fig. 6

Fig. 7

Fig. 8

Fig. 9

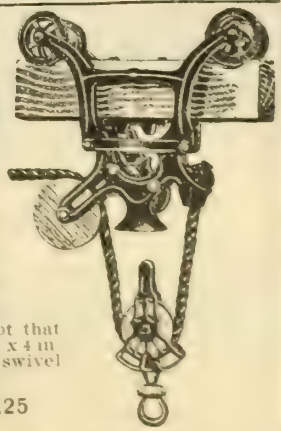
Meyers' Double Lock Reversible Carrier.



AN examination of the working parts of this Carrier will show that it is a DOUBLE LOCK CARRIER. The stop has a notch on each side and Carrier also either will hold it in, while elevating fork full of hay. Has 3-in. track wheels, which revolve on ¾-in. turned steel axles. All rope wheels are fitted with large bushings Unquestionably one of the simplest, most durable and reliable Carriers made.

Price, - - $4.25

NEY'S PATENT WOOD TRACK CARRIER.



THIS cut shows the Swivel Reversible Carrier for Wood Track. In construction it is the same as the steel track car (reverses the same way), except that it is made to run on 4 x 4 in wood track. The best swivel wood track car made.

Price, - - - $4.25

WRITE FOR SPECIAL DISCOUNT FROM THESE PRICES.

HAY TOOL SUPPLIES.

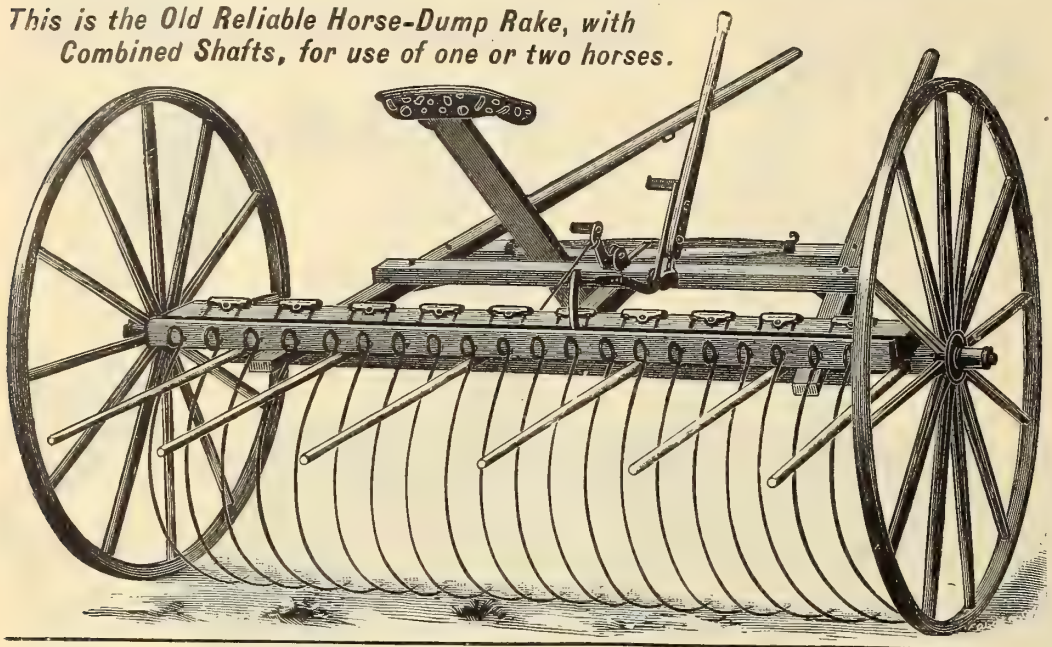
Price—Fig. 1	—Double Harpoon Hay Fork	$1.00
" 2	—Hanging Hook for Wood Track, 14 inch	.08
" "	" " " Steel "	.08
" 3	—Patent Rope Hitch	.25
" 4	—Floor Hook	.08
" 5	—Rafter Bracket	.06
" 6	—Rafter Grapp es	.60
Price,	Extra Trips or Stops for Cars	$ .7
Fig. 7	—Maple Sheave Pulley	.5
" 8	—Iron Strapped Pulley	.5
" 9	—Knot Passing Pulley	.3
	Plain Iron Pulleys	.3
	Steel Track, per foot	.1

WRITE FOR SPECIAL CASH DISCOUNT FROM THESE PRICES

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BALTIMORE SELF-DUMP RAKE.

This is the Old Reliable Horse-Dump Rake, with Combined Shafts, for use of one or two horses.



Made in either Wood or Steel. Disengages noiselessly and without jar or strain. We claim for it greater strength because the parts are united securely to the steel axle and the wood rake-head, and because there is less wear and tear than on other rakes. It has steel teeth, made from the best crucible steel, and tempered in oil.

The lever remains stationary when the load is discharged.

PRICE,
BALTIMORE SELF-DUMP RAKE,
Wood, - - $20.00
Steel, - - 21.00

• Baltimore • Hand-Dump Rake

MADE IN EITHER WOOD OR STEEL.

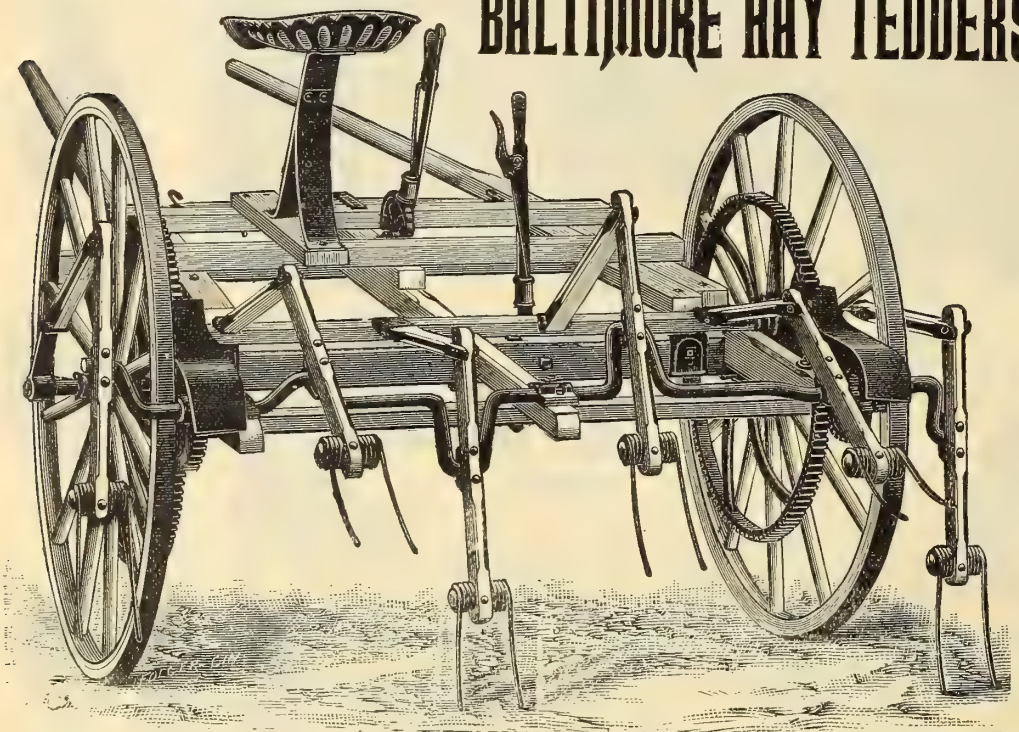
This Rake is made of thoroughly seasoned hardwood. The axle arms are 1¼-inch round iron, securely bolted to the wood axle head. It has 20 teeth of spring steel, same as above. Every tooth independent. The seat is adjustable and can be raised or lowered for man or boy.

The Steel Hand-Dump Rake is similar in all respects excepting in material used.

PRICE,
BALTIMORE HAND-DUMP RAKE,
Wood, - - 16.00
Steel, - - 17.00

MADE IN EITHER WOOD OR STEEL.

BALTIMORE HAY TEDDERS.



The Best Wood Frame Tedder for Heavy Grass or Fallen Grain.

Combination shafts and tongue, without side fork and shields over gearing.

The Baltimore has new bent shifting lever which makes a complete lock. Also is provided with a most comfortable spring seat, levers for raising and lowering, and throwing in or out of gear, within easy reach of the driver. Combined pole and shafts, quickly and easily changed from a one to a two-horse machine.

The Ground Wheels are closer together than on most Tedders. The outside forks kick the hay up loose after the wheels pass over it. Forks are made of crucible steel, oil tempered. One of the simplest and most comprehensive Tedders on the market.

——PRICE:——

BALTIMORE TEDDER, Wood, - - - - - $28.00
" " Steel, - - - - - 30.00

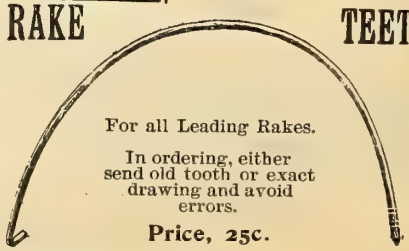
Hay Tedder Forks

Always on hand, stock of Forks for leading styles of Hay Tedders.

Price, - 20cts.

SPECIAL PRICES IN QUANTITIES.

RAKE TEETH



For all Leading Rakes.

In ordering, either send old tooth or exact drawing and avoid errors.

Price, 25c.

SPECIAL PRICES ON ABOVE RAKES AND TEDDERS FOR CASH.

Baltimore. Established 1860.

THOMAS RAKES and TEDDERS

GENUINE
THOMAS HAND DUMP RAKE

This Rake has long been known in the agricultural world as one of the best Rakes made.

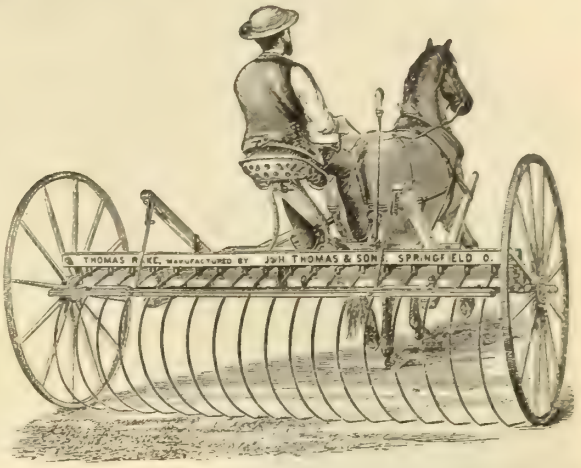
POINTS OF MERIT:

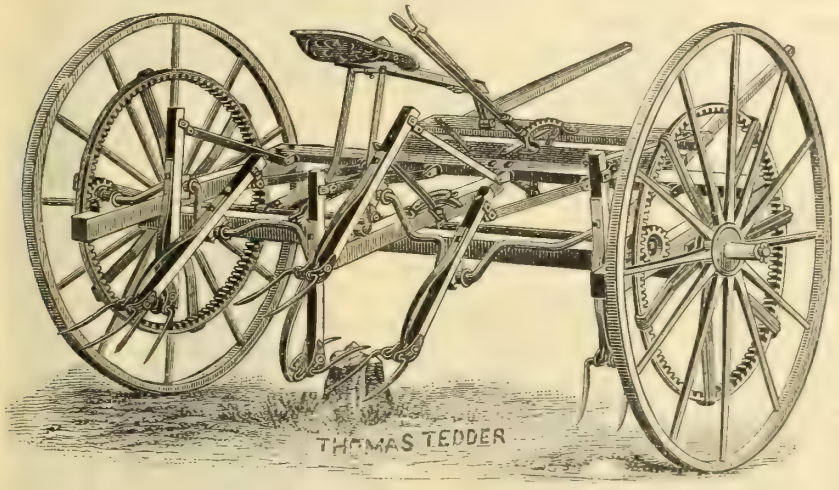
It rarely requires any repairs; will rake corn stalks as well as the heaviest hay; has a long and good spring over each tooth; an overhanging cleaner with roller turns the hay in dumping and brings green hay on top.

In other styles, the Rake Head is bolted firmly to the axle, and when dumping, specially on hill sides, the binding of the wheel on the axle causes greater friction and hard work to the operator. In this Rake the head turns on the axle, which extends beyond and is bolted to the shafts, so that in dumping the wheel is allowed to turn easily. The effect of the adjustment of the seat attachment is three-fold—first, the weight of the operator assists in dumping; secondly, prevents the sudden hard fall and consequent breakage of teeth and jarring to machinery; thirdly, the teeth will not rebound.

Price, - - - $18.00

Special Price for Cash.





GENUINE THOMAS TEDDER.

On this Tedder is used a continuous heavy steel axle. Wheels have lugs to prevent slipping and tires are bolted on. Lever for throwing in and out of gear is in the centre of Tedder, and operator can work it from his seat. Big cog wheels fastened securely to the nut of ground wheel and not bolted to the spokes. Driver's weight rests on axle and not on horse's neck. A spring on front frame piece to relieve the whole frame should it run against an obstruction. Steel cranks are used; smooth at all the journals and bearings, reducing wear and friction to a minimum. A regular pitchfork style of kicker is used. Fork spring is of steel.

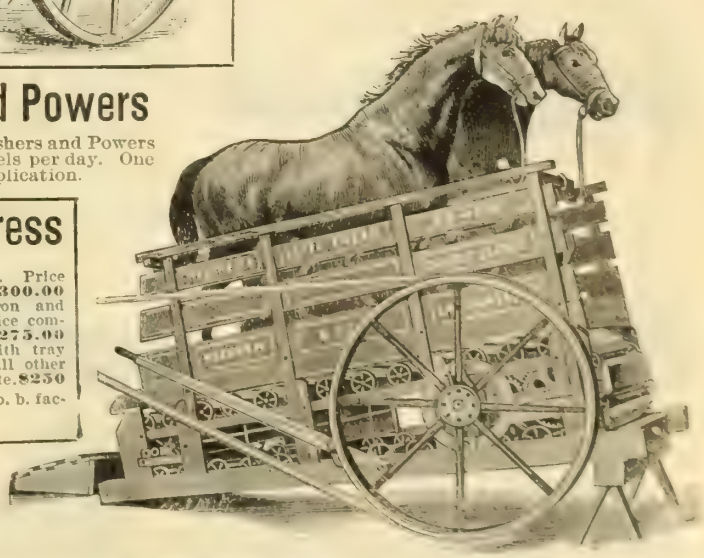
This machine is built in a most substantial manner, and of the very finest and strongest material, and will properly handle the heaviest hay. All the kickers are between the wheels.

$30.00

Special Price for Cash.

Baltimore Little Giant Threshers and Powers

These Powers are made for one, two and three horses, also Threshers and Powers for horse or steam. Giant Thresher No. 2, from 200 to 500 bushels per day. One horse power Thresher from 75 to 125 bushels per day. Prices on application.



Dederich's Steel Case Reversible Press

Size bale chamber 17x22. Price complete.....**$300.00**

Patent wood frame, iron and steel press, 17x22. Price complete **$275.00**

The same as above with tray hopper, as used on all other presses. Price complete.**$250**

Less special discount, f. o. b. factory.

Dederich's Steel Frame Full Circle Press.

Size bale chamber 14x18. Price complete..... ..... **$350.00**

17x22 or any other size bale **375.00**

Less Special Discount, f. o b. factory.

BALING TIES.

The cost of Bale Ties is from 40 to 60 cents per ton of hay. To get the length of the tie required add 3 inches to the measure around the bale when under pressure. We keep in stock only the standard size, No 15, 8¼ feet long, but can furnish any of the other sizes on order at lowest prices. Retail price on application.

ANNEALED BALING WIRE. Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices on applicati

ALL KINDS OF MACHINERY REPAIRED.

IMPROVED STEEL BINDER.

DEERING IMPROVED STEEL BINDER
with Roller and Ball Bearings, has jointed platform, one-lever reel, twine-saving knotter, broad elevators and binder deck. This machine is known and appreciated wherever grain is grown.

DEERING IDEAL REAPER
with Roller Bearings, is justly popular everywhere because of its extremely light draft, its high rake stand, its facilities for transportation, its durability and the perfection of its cutting apparatus.

DEERING IDEAL MOWER
with Roller and Ball Bearings, draws one-third lighter than any other mower made. Serrated Ledger-plates hold up stubborn grasses and compel them to be cut. The only mower that can be driven at a slow walk in heavy grass, and the only one that can be started in any crop without backing. Perfect Foot-lift and Lifting Spring. All widths of cut—3½ and 4 feet, one-horse; 4½ and 5 feet, Ideal; 6 and 7 feet, Ideal Giant.

DEERING CORN HARVESTER
with Ball Bearings, has demonstrated that the horizontal principle for binding corn is the only correct one. This machine has been improved, and is ready to continue the victories of the past two seasons.

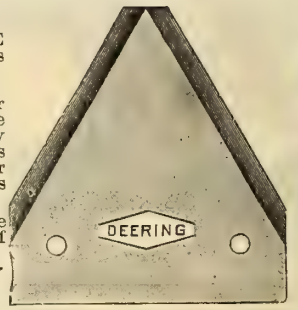
SEND FOR CATALOGUE "FORTY HARVEST SEASONS."

IMPORTANT.

WE ARE HEADQUARTERS for KNIVES, SECTIONS, GUARDS, RIVETS, KNIFE HEADS, COTTERS, STEEL PUNCHES, COLD CHISELS, etc., for all leading machines on the market; also furnish Thresher Teeth, with or without nuts.

It is frequently the case that farmers are located where there is no stock of sections, etc., carried We are headquarters for a full line of these goods, enumerated above and if you will write us for prices, can doubtless supply you with what you need at very low prices. As a rule the above are not ordered until needed for immediate use, now if you will only take up the matter with us early in the season we are confident we can save you both money and annoyance. This not only holds good for this class of goods, but Grain Drill Points and Tubes and other extras. Look over your Plows, Cultivators, Grain Drills, Mowers, Binders, Feed Cutters, etc., make out your list and let us have it early.

BEST GOODS AT LOW PRICES.—In ordering the above repairs always bring or send the part you wish duplicated, or a drawing, also always give the name of machine and number of part. Write us for prices and terms.



KNIFE SECTION.

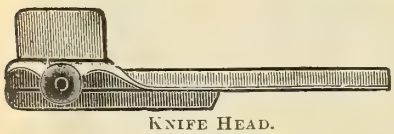
RIVETS.

WROUGHT SCREW AGRICULTURAL WRENCHES.

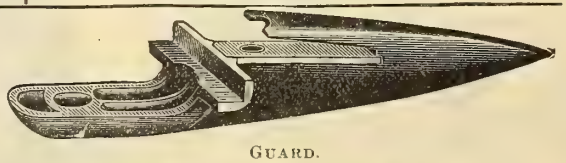
	6-in.	8-in.	10 in.	12-in.	15-in.
Retail price, each,	$ .25	$ .35	$ .50	$ .60	$ .75
List price, per doz.	9.00	10.00	12.00	14.00	24.00

LINK CHAIN BELTING
for use on Mowers, Reapers, Binders, Corn and Wheat Drills, Corn Shellers, Straw Stackers, Feed Cutters, Traction Engines, etc. Other attachments will be furnished at special prices.

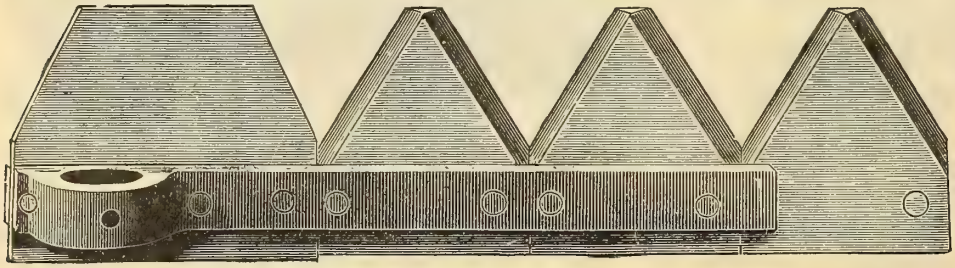
WE are prepared to furnish Binder and Conveyor canvases for the leading machines at comparatively low prices



KNIFE HEAD.



GUARD.



SECTIONS AND KNIFE HEAD.

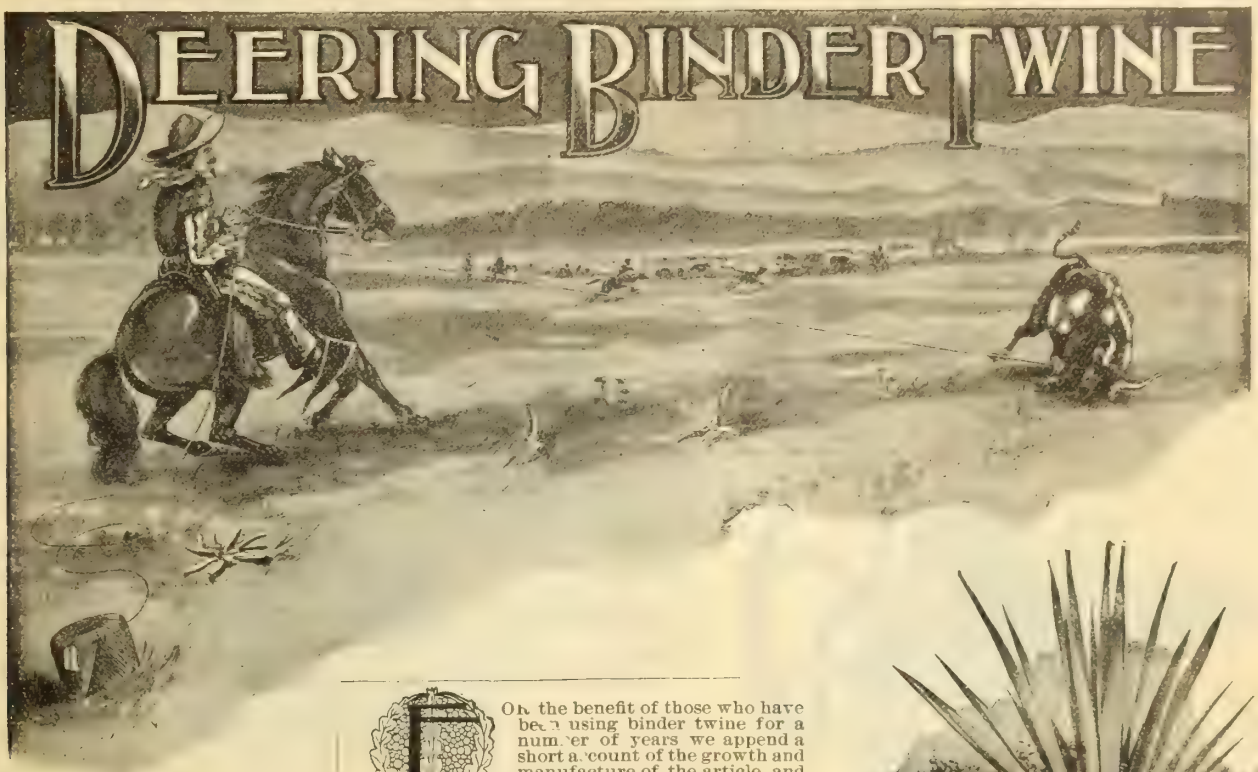
COTTER.

PUNCH.

COLD CHISEL.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

DEERING BINDER TWINE



For the benefit of those who have been using binder twine for a number of years we append a short account of the growth and manufacture of the article, and you will find contiguous, cuts of the Manila and Sisal plants which will give an idea of their growth. We are headquarters for binder twine, which consists of the best at lowest prices, and can supply in any quantity desired, such as Sisal, Standard, Standard Manila, Manila and Pure Manila.

SISAL PLANT.

The preparation of Manila fibre, while possessing much in common with that of Sisal, is still more arduous and expensive. The fibre is obtained from the fully developed leaves of a species of plantain or banana tree, which grows best in the Philippine Islands and takes its commercial name from the chief city of the Island of Luzon, the largest of the group. The Manila tree, after a growth of three years, is shorn of its long, graceful leaves, which, though of considerable bulk, yield scarcely two-thirds of a pound of fibre to the tree. It is not surprising then, that a bale of 270 pounds' weight represents three years' production of over 400 trees and requires the labor of one man for about 22½ days to gather and prepare it for market. Every pound of finished twine is weighed, tested and measured. It is balled, tagged and packed in neat, portable fifty-pound bales and sent to the farmer with a guarantee that every bale is "just what the tag says it is." Sisal fibre is obtained from the leaves of a species of Central American agave, similar to the century plant, which flourishes in the hard, calcareous soil of Yucatan. Five years after planting the leaves may be cut. Natives gather them and with crude machinery scrape the pulp away. The fibre is then hung on long lines and dried, leaving it in its raw state. It is then twisted in big skeins, baled and shipped to the Deering Harvester Co.'s mills for the final process of manufacture. For those who are interested in further details of the manufacture of this important product we will mail an illustrated booklet free on application.

MANILA PLANT.

ON ACCOUNT OF THE GREAT FLUCTUATION OF THE MARKET WE CANNOT QUOTE PRICES HERE, BUT SAME WILL BE FURNISHED ON APPLICATION.

ROPE, FODDER YARN AND BINDER TWINE.

We keep a full line of Manila, Sisal and Cotton Ropes, including all sizes from 5-16 up. We make a specialty of ¼, 13-16 and ½ Hay Fork Rope.

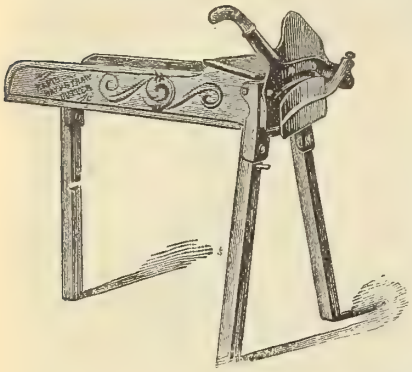
Complete line of Twines and Fodder Yarn always on hand.

We make a specialty of BINDER TWINE and carry a large stock of all grades in season. Prices quoted on application.

Deering Harvester Oil possesses all the elements which fit it for use in harvesting machinery. It is always uniform, unexcelled as a lubricant. It is not a mixture in any sense of the word, being a straight-run product. It can never gum, no matter what the temperature or climate. Its usefulness is not confined to harvesting machinery alone, and thousands of other machines owe their smooth and frictionless action to its use. Dust and grit are much in evidence in the harvest-field, and the greater the consistency of an oil, the more effective it is to withstanding these evils. Deering oil will never thicken, even to the very last drop, whether exposed to the air or not. The best testimonial to its worth is, that once used it is always used.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Fodder and Ensilage Cutter and Shredder Department.



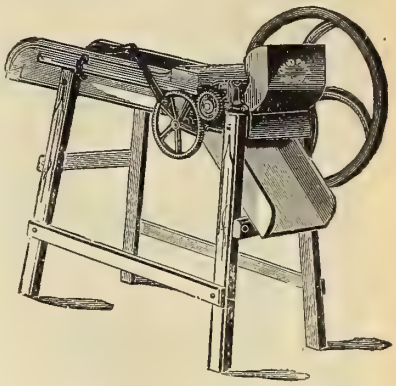
Maryland Lever Cutter.

STRONG, CHEAP and DURABLE.

Price..... **$3.50**

There are a number of cheaper Lever Cutters on the market which we do not carry in stock, but can furnish at lowest market prices.

Our Baltimore Pony Cutter.

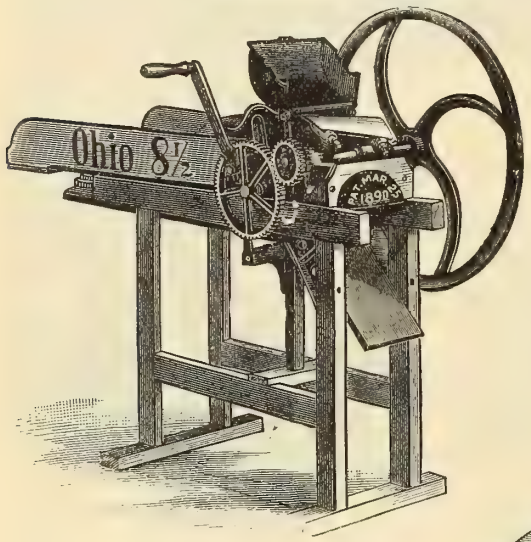


THIS Cutter, the Baltimore Pony, is for hand use only; strong and light running. Adapted to cutting hay, straw and corn fodder, and is suitable for persons keeping from one to four or five animals.

There is only one size, and it is made so it can be knocked down and packed for shipment, thus securing lower freight rate. Has 11¼ in. knife, and by very simple changes makes four lengths of cut. A great improvement in this machine—the feed roller stops when the knife is cutting, making it easier on the operator, and consequently avoids the pressing against the knife so common in other cutters. Weight, K. D. packed for shipment, 160 pounds. Pony Cutter, 1¼-inch knife.

Retail price..... **$10.00**

Special Discount for Cash.



"Ohio" Hand Feed Cutter.

MADE IN TWO SIZES, Nos. 8½ and 10½, THE NUMBERS CORRESPONDING WITH THE LENGTH OF KNIVES IN INCHES.

THESE MACHINES are light, but very strong and serviceable, and have large capacity. The frames are solid and substantial, and all sizes are adapted to cutting hay, straw and all kinds of fodder, green or dry. They are especially adapted to the requirements of those keeping from two to six animals, and also livery stables and like places, where all of the cutting is done by hand.

We recommend the use of two-knife machines, for the reason that double the quantity of feed may be cut a given length.

We always send two-knife machines, unless otherwise ordered,

Price..... .....No. 8½, **$20.00**

Price..... ...No. 10½, **$25.00**

Less 30 Per Cent. Retail.

"OHIO" Standard Feed and Ensilage Cutter

This machine has all the latest improvements and is in every way first-class. It is desirable for general farm work, and has capacity to cut feed for twenty to sixty animals. It is used extensively to cut ensilage, and, for medium-sized silos, gives perfect satisfaction. Fly wheel or pulley can be placed on either end of the shaft. Each machine is provided with handle to go on fly wheel, and it is operated by hand successfully.

Length of knives, 13 inches.

Steel knife shaft, 1 9-16 inches diameter.

Cuts with two knives, ½, 1, 1½ and 2 inches; with four knives, ¼, ½, ¾ and 1 inch.

Size of pulley, 12 inches diameter, 6-inch face. Pulleys, 6, 8, 10 and 15 inches diameter, furnished when ordered.

Speed, 450 to 600 revolutions per minute.

Power required, two to four horse.

Capacity, four to six tons green corn fodder, 2,000 to 3,000 lbs. dry feed per hour.

Weight, 560 pounds.

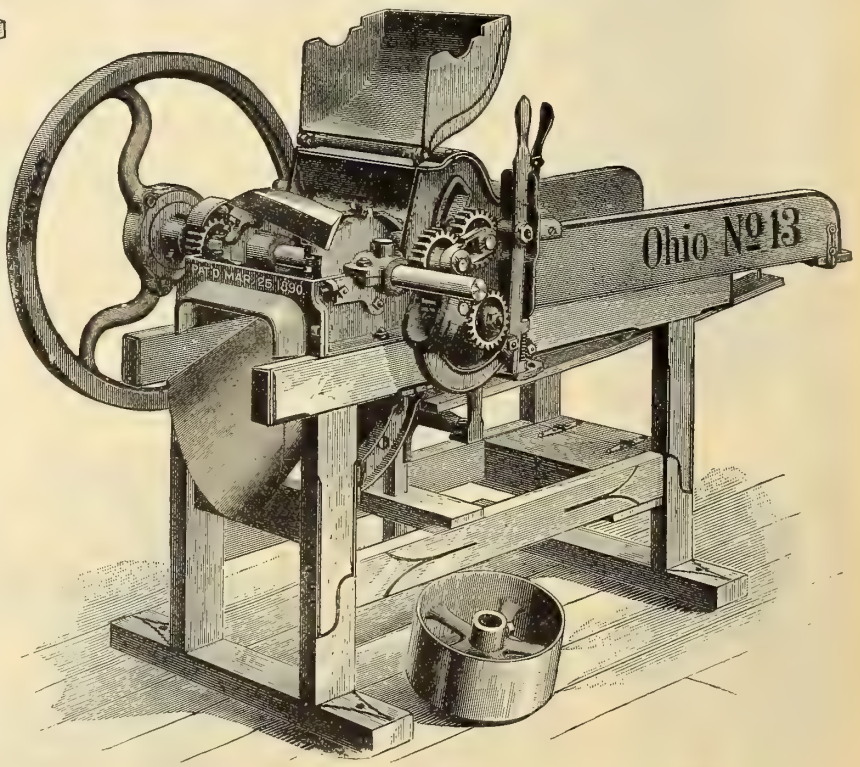
No. 13. With two knives, 13 inches long, four lengths cut, **$60.00.**

No. 13. With four knives, 13 inches long, four lengths cut, **$65.00.**

Less 30 Per Cent. Retail.

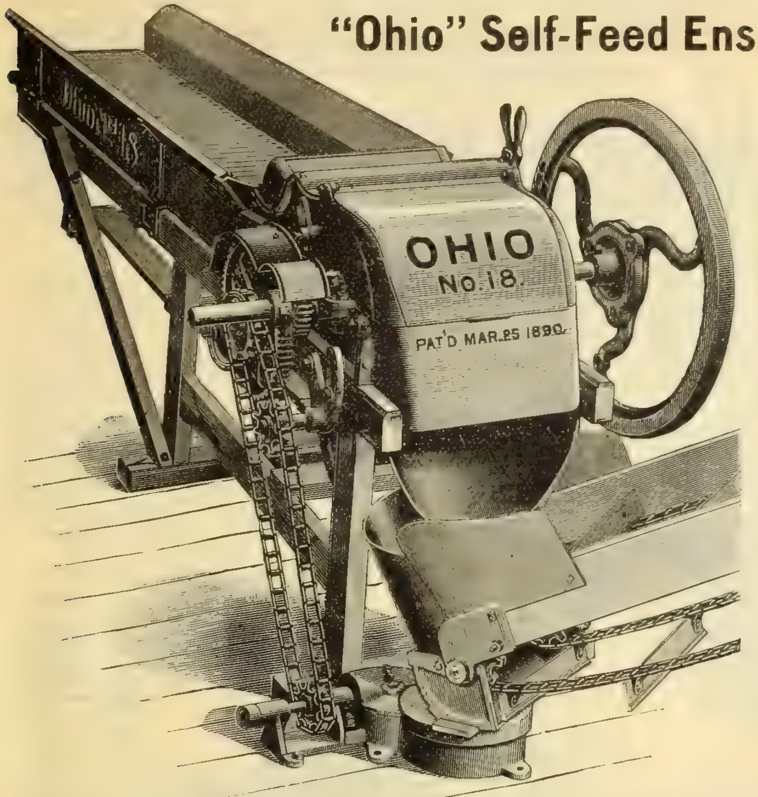
Price of shredder cylinder for this machine, see page 98.

They are made for all sizes, as listed, and are interchangeable with the knife cylinder in all Ohio" Feed Cutters.



For Full Description of These Goods Write for "Ohio" Catalogue, Free.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



"Ohio" Self-Feed Ensilage Cutter and New Metal Bucket Swivel Carrier.

THE ADVANTAGES of the swivel carrier over the former pattern reversible carrier are: First, that in addition to being able to set right, left or straight, it can be set at any angle; second, the mechanical parts that convert the power from machine to carrier are properly mounted in a closed iron case, which causes them to run with the least friction, and, most important, keeps out the dirt and grit; third, it is very much easier to set up and to move about.

Two or More Silos May Be Filled Without Moving Cutter. By being able to set this carrier at any angle two or more silos may be reached without necessity of moving the cutter Parties make best use of this by giving it attention when locating silos Swivel Carriers are made for Nos. 13, 16, 18, 20 and 24 Cutters.

Instructions for Setting Up Carriers. To set up place the square flange on inside of carrier base against foot of cutter and connect up the drive chain. Locate the lower end of carrier with the hubs of the bearings resting in the forks of the base. After the sections of the carrier are connected up put a light rope inside its entire length, then elevate it and secure to place, arranging so it will reach into the silo one or two feet. A light block and tackle is usually used to elevate it. Next draw the chain up by means of the light rope; and connect up.

Bearings Should be Oiled With Good Oil. Oil cups and oil holes are provided for all bearings, and the machine must be carefully and frequently oiled with good quality machine oil at the start. Care should be exercised to keep the bearings lubricated at all times.

PRICE LIST OF ENSILAGE CUTTERS.

Size	Knives	Lengths of Cut	Capacity Ensilage (Tons per hour)	Power Necessary to Run to Full Capacity (Engine H.P.)	Price
No. 13	Four 13-in.	¼, ½, ¾, 1 in.	5 to 8	4 to 6	**$95.00**
No. 16	Four 16-in.	¼, ½, ¾, 1 in.	8 to 10	6 to 8	**120.00**
No. 18	Four 18-in.	¼, ½, ¾, 1 in.	10 to 13	6 to 10	**155.00**
No. 20	Four 20-in.	¼, ½, ¾, 1 in.	15 to 20	8 to 12	**250.00**
No. 24	Four 24-in.	¼, ½, ¾, 1 in.	20 to 25	10 to 12	**300.00**

Extra gears to cut 4 inches long, Nos. 13, 16 or 18 .... **$4.00**
Extra gears to cut 4 inches long, Nos. 20 or 24.................. **6.50**
Weights: No. 13, 775 lbs.; No. 16, 835 lbs.; No. 18, 875 lbs.; No. 20, 1585 lbs.; No. 24, 1685 lbs.

PRICE LIST OF SWIVEL CARRIERS.

No. 13—12-foot Carrier complete, including base and connections..........	**$ 45.00**
No. 16—12-foot Carrier complete, including base and connections..........	**45.00**
No. 18—12-foot Carrier complete, including base and connections..........	**45.00**
No. 20—12-foot Carrier complete, including base and connections..........	**55.00**
No. 24—12-foot Carrier complete, including base and connections..........	**60.00**
Additional length, per foot, for Nos. 13, 16 or 18 Carriers..........	**1.70**
Additional length, per foot, for No. 20 Carrier......	**2.25**
Additional length, per foot, for No. 24 Carrier.....	**2.25**
Wood cover, with hooks and eyes to fasten, for Nos. 13, 16 or 18, per foot	**.25**
Wood cover, with hooks and eyes to fasten, for No. 20, per foot	**.35**
Wood cover, with hooks and eyes to fasten, for No. 24, per foot..........	**.35**

"Ohio" Wind Cutter, No. 16.

Made With Plain Table, as Shown, or With Traveling Feed Table.

SIZE AND PRICE,

No. 16 "Ohio" Wind Cutter, with plain table, as shown, and 2-foot hood for top of pipe, weight 1000 lbs........... **$150.00**
8-inch galvanized pipe, in 4, 6, and 10-foot joints, per foot.. **.80**
Traveling feed table, same as used on "Ohio" Cylinder Cutters, to convert it to a Self-Feed Cutter.. **$10.00**

A Fly-Wheel Cutter Embodying Desirable Points in "Ohio" Cutters. This illustrates our new type of cutter and pneumatic elevator combined, having the knives and wind vanes attached to fly wheel, all inclosed in a heavy cast iron fan case, and familiarly known as "Wind Cutter, with gearing, rollers and other desirable features of the well-known "Ohio" Cutter applied, which is a guarantee of its efficiency and durability.

Capacity About the Same as "Ohio" No. 16 Cutter, This machine is made in one size only, No. 16, with 18-inch knives. The size indicates the width of throat, which is 16 inches, thus giving it about the same capacity as our No. 16 "Ohio" Standard cylinder knife machine.

Knives Can Be Removed for Grinding and Adjusting. Provision is made for easy access to the knives, which can be readily removed for grinding or adjusting to cutter bar, and grating covers inlet on either side to prevent accidents.

Power and Speed. Owing to the high speed of the fan, it requires a little more power than cutter and carrier, and to be on the safe s... we recommend not less than 10 H. P. engine, and to run the cutter *between* 800 and 900 revolutions per minute, giving the fan a speed of 2,000 ... 2,500 revolutions, which will elevate all kinds of dry feed, ensilage, or water a perpendicular height of 40 feet or more

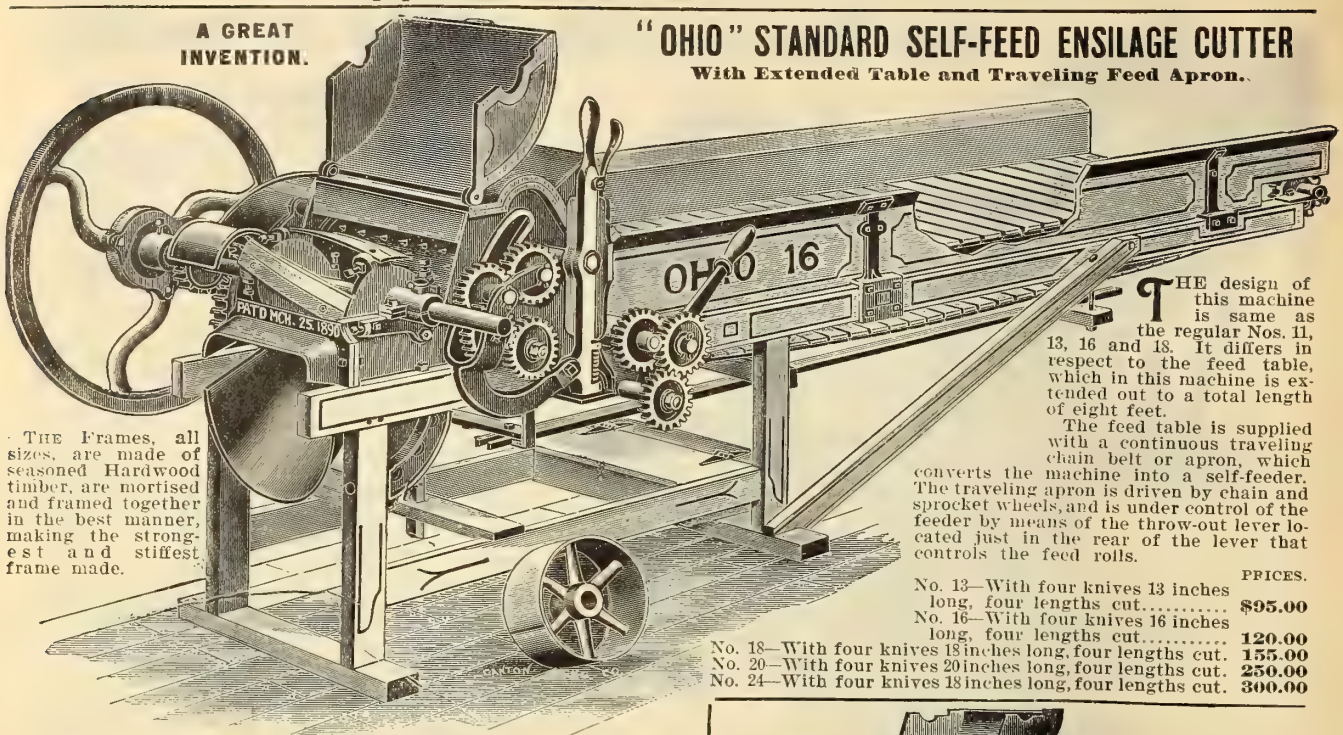
Do not overcrowd the machine, as that will prevent the free passage of the material. For further information on these carriers and blowers send for our "Ohio" catalogue, free.

ALL KINDS OF MACHINERY REPAIRED.

A GREAT INVENTION.

"OHIO" STANDARD SELF-FEED ENSILAGE CUTTER

With Extended Table and Traveling Feed Apron.



THE Frames, all sizes, are made of seasoned Hardwood timber, are mortised and framed together in the best manner, making the strongest and stiffest frame made.

THE design of this machine is same as the regular Nos. 11, 13, 16 and 18. It differs in respect to the feed table, which in this machine is extended out to a total length of eight feet.

The feed table is supplied with a continuous traveling chain belt or apron, which converts the machine into a self-feeder. The traveling apron is driven by chain and sprocket wheels, and is under control of the feeder by means of the throw-out lever located just in the rear of the lever that controls the feed rolls.

	PRICES.
No. 13—With four knives 13 inches long, four lengths cut	**$95.00**
No. 16—With four knives 16 inches long, four lengths cut	**120.00**
No. 18—With four knives 18 inches long, four lengths cut.	**155.00**
No. 20—With four knives 20 inches long, four lengths cut.	**250.00**
No. 24—With four knives 18 inches long, four lengths cut.	**300.00**

Less 30 per cent. retail.

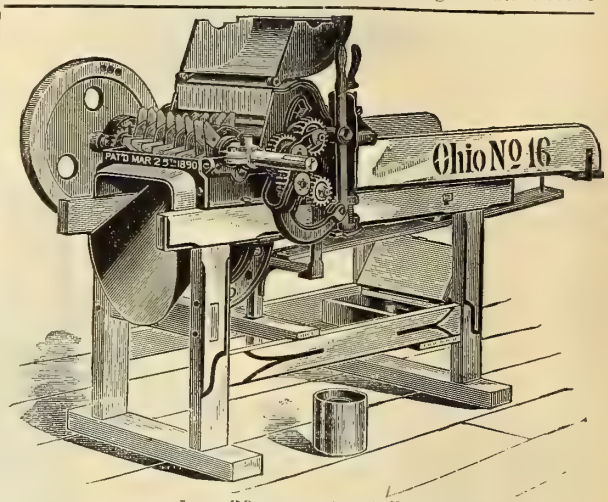
The "Ohio" Dry Fodder Shredder Complete

The Shredder Cylinders are for dry corn fodder. We can furnish Shredder Cylinders for "Ohio" Cutters Nos. 11, 13, 16, 18, 20 and 24. The shredder head can be removed and the knife cylinder attached instead, in case the machine is wanted for hay or ensilage cutting. In order to reap the best results in shredding, the machine must be speeded up to ten or twelve hundred revolutions per minute; for that reason we use the fly-wheel seen in the cut, instead of the open wheel in the Ohio Cutter.

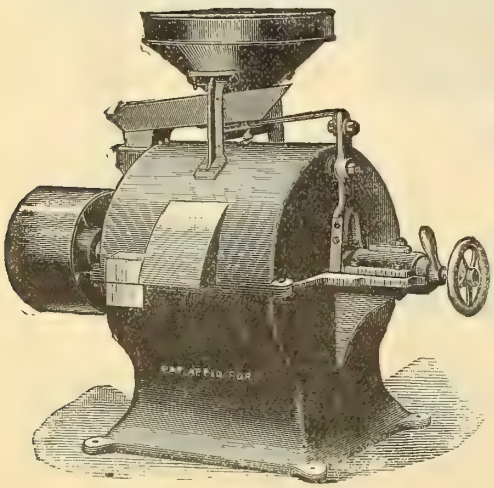
	PRICES.
No. 11—With Solid Fly-Wheel and Six-Inch Pulley	**$45.00**
No. 13—With Solid Fly-Wheel and Six-Inch Pulley	**65.00**
No. 16—With Solid Fly-Wheel and Six-Inch Pulley	**90.00**
No. 18—With Solid Fly-Wheel and Six-Inch Pulley	**120.00**
No. 20—With Regular Fly-Wheel, Small Pulley	**200.00**
No. 24—With Regular Fly-Wheel, Small Pulley	**250.00**

SHREDDER CYLINDERS ONLY.

	PRICES.
For No. 11, including Fly-Wheel and Pulley	**$25.00**
For No. 13, including Fly-Wheel and Pulley	**28.00**
For No. 16, including Fly-Wheel and Pulley	**30.00**
For No. 18, including Fly-Wheel and Pulley	**32.00**
For No. 20, including Pulley, no Fly-Wheel	**50.00**
For No. 24, including Pulley, no Fly-Wheel	**55.00**



Less 30 per cent. retail.



STRAUB'S VERTICAL FRENCH BURR MILLS.

These Burr Stone Mills are the best ever offered to the public. Strong, well and substantially built. The cut, which represents the "Export," is designed both for export and domestic trade. It has been thoroughly tested and is an entire success. For grinding corn and feed, mineral paints, cement, plaster, shells, bones, spices, graham and buckwheat flour, etc.

"EXPORT."

Size of Mill.	H. P. Required.	Capacity Bus. per Hour.	Speed per Min.	Floor Space.	Height.	Pulley.	Shipping Wt.	Price. List.	Price. Retail.
No. 15—15 in.	2 to 5	8 to 15	1,000	42x25	37 inches.	10x 6½	600 lbs.	**$150.00**	**$90.00**
No. 18—18 in.	6 to 10	15 to 30	1,000	46x28	40 inches.	12x 7½	900 lbs.	**170.00**	**102.00**
No. 24—24 in.	8 to 12	20 to 50	800	56x38	54 inches.	16x10	1,500 lbs.	**275.00**	**165.00**

"EXPORT, JR."

The next mill is the "Export, Jr.," following the same general principles of the above, but is lighter and has been found perfectly satisfactory for grinding corn, wheat, rye, oats, buckwheat, rice, coffee, spices, or, in fact, anything that can be ground upon our larger French Burr Mills. It can be operated by light motors or engines, wind mills, sweep or tread powers.

Size of Mill, 9 inch. Power required, one-half to 2-horse power. Capacity per hour, 2 to 8 bushels. Revolutions, 800-1200. Size of pulley, 6x3½. Net weight, 225 pounds. Boxed weight, 275 pounds. Height, 32 inches. Floor space, 30x18 inches. Retail price, **$45.00.** List price, **$70.00.**

RUBBER BELTING for Agricultural and Other Machinery.

Three and Four Ply. Sizes, 3, 3½, 4, 4½, 5 and 6 Inches. ☞Prices on application.

For Full Description of Cutters and Shredders Send for Ohio Catalogue, Free.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Baltimore. Established 1860.

GRIFFITH & TURNER POWER GRINDER.

No. 2, Large Grinder.—Burrs 14 inches in diameter. Capacity 30 to 50 bushels per hour, requiring 12 to 16 horse-power. Engine should be run 800 to 1200 revolutions per minute. Weight, 450 pounds.....**$50.00**

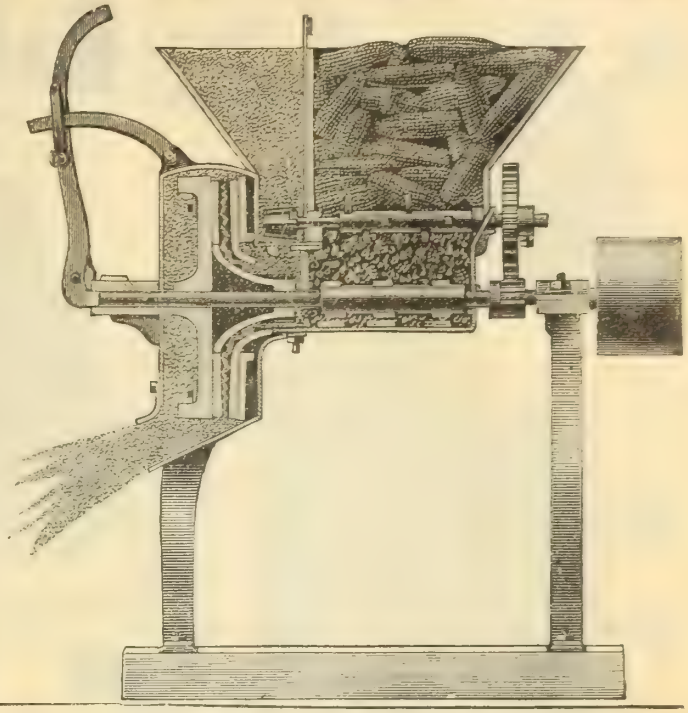
No. 1, Medium Grinder.—Burrs 12 inches in diameter. Capacity 20 to 40 bushels per hour, requiring 8 to 10 horse-power. Engine should be run 800 to 1200 revolutions per minute. Weight, 400 pounds.....**$45.00**

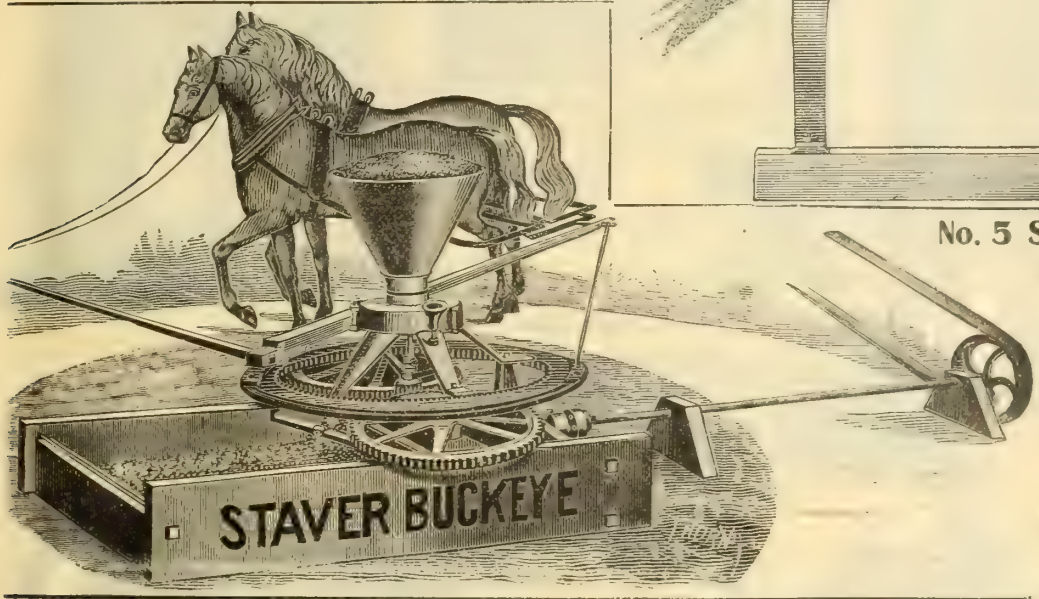
Special Discount for Cash.

The Only Mill that can be set to Regulate and Grind Successfully Ear Corn and Small Grain both at the Same Time.

No mill is complete without this desirable feature. This is accomplished by having a partition in the hopper and a feeding arrangement for each side. The main shaft is made of cold rolled steel, with good long bearings filled with an extra grade of Babbit metal. The two bearings are cast in one solid piece on the main frame, thus making it impossible for the bearings to get out of line. The shaft is carefully balanced after the fly-wheel and plate are attached, making a steady and light-running mill.

The grinding plates are made of chilled metal and steel mixed, and have the teeth shaped to give the best possible results for light draft and for not heating the meal. An extra set of grinding plates free with each Power Mill. The fly-wheel is enclosed inside the mill, just where it is most needed, and out of the way. They are well made throughout and equal to anything in the market.





No. 5 Staver Buckeye Cob Mill and Power Combined.

FOR GRINDING EAR CORN OR SMALL GRAIN.

1. A rapid-grinding Corn and Cob Mill.
2. A mill that grinds fine either Ear Corn or Small Grains without change of plates.
3. A Cob Mill, a Mill for Small Grain, and a good Two-Horse Power combined in one light-running machine.

This mill has been thoroughly tested, and never fails to give satisfaction.

Price, - $55.00, Less Special Discount for Cash.

For Extra Sweep, $4.00.

New Model Sweep Grinder.

Capacity under Ordinary Conditions, 5 to 8 bus. per Hour, Requiring 1 to 2 Horses. Weight, 400 lbs.

EVERY MILL GUARANTEED.

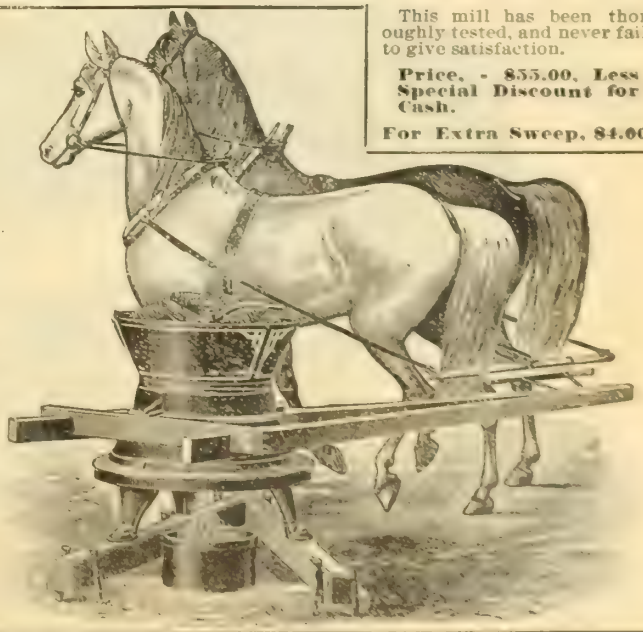
These Mills will Grind all Kinds of Grain as well as Corn with Cob, Oats, Rye, etc., Mixed.

The Grinding Rings are Made from Specially Prepared Hard White Metal, and will Grind Thousands of Bushels Without Replacing.

Every Farmer His Own Miller—Saves Your Time and Tollage—Saves its Cost in One Year—Grinds either with Cob or without Cob—The Mill will last a Life Time—No Farmer can Afford to do without One.

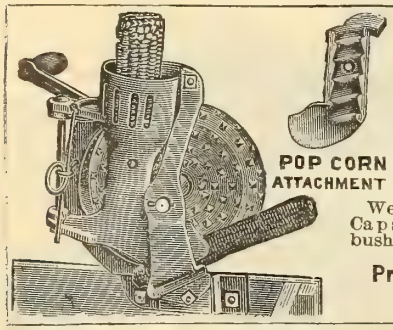
We have two sets of patterns of grinding rings or concaves for the New Model Mill—one set for fine grinding and one set for coarser, and when not specified in order, we furnish one fine and one coarse in mill, which grinds the meal medium fine and gives general satisfaction. However, when grinding meal for table use, two fine concaves are used, and when grinding for sheep or horses, two coarse concaves give best results, as they grind faster, but not as fine. The concaves are easily changed; only one set are furnished, unless otherwise ordered, and at an additional cost.

Price, - $25.00 Special Discount for Cash.



ALL KINDS OF MACHINERY REPAIRED.

Baltimore Shellers



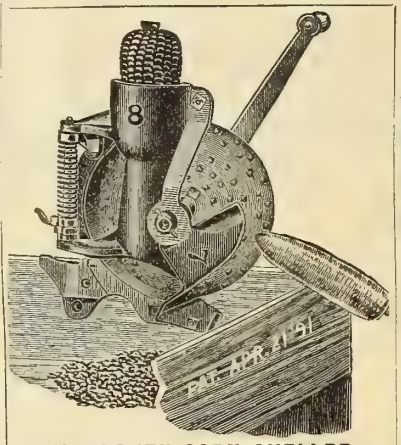
"EASY" CORN SHELLERS

POP CORN ATTACHMENT

Simple, cheap, strong and convenient.

Weight, 15 lbs. Capacity, 8 to 10 bushels per hour.

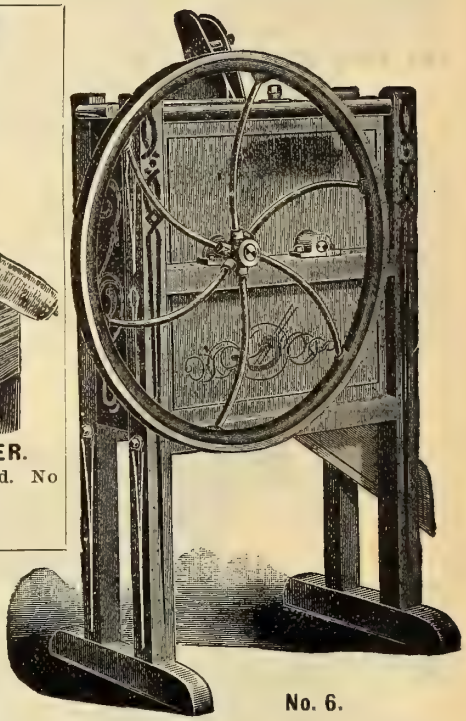
Price, $1.50



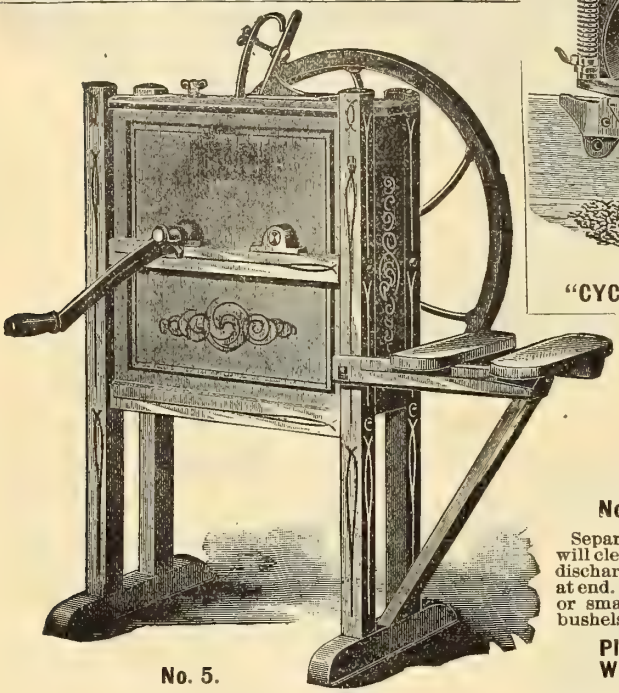
"CYCLONE" CORN SHELLER.

One of the best of its kind. No clogging or choking.

Price, $2.00.



No. 6.



No. 5.

No. 3, Single Spout.

Separates corn and cob. Fan will clean corn for market. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity, 125 bushels a day.

Plain, - - - - $6.50
With Fan, - - 7.00

No. 4, Single Spout.

Screens corn; side delivery; light-running; strong steel shafts. Capacity, 125 bushels a day.

Plain, - - - - $6.50

No. 5.

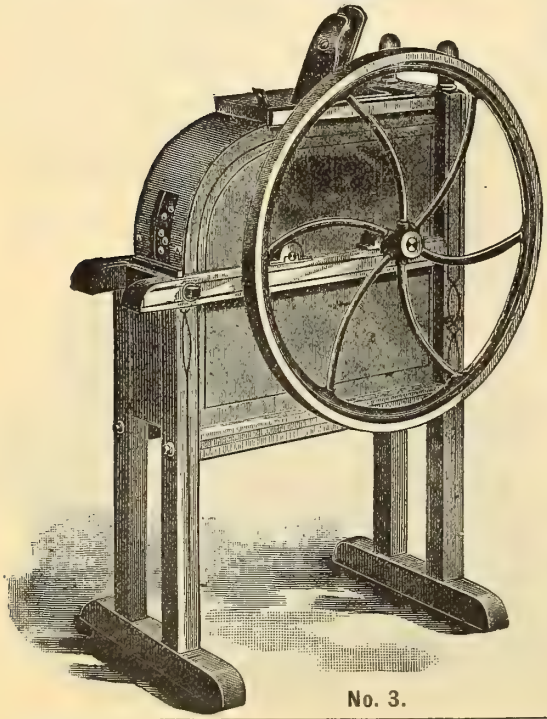
Capacity, 125 bushels per day; single spout; left hand.

Without basket holder, $6.00
Basket holder, extra, 60

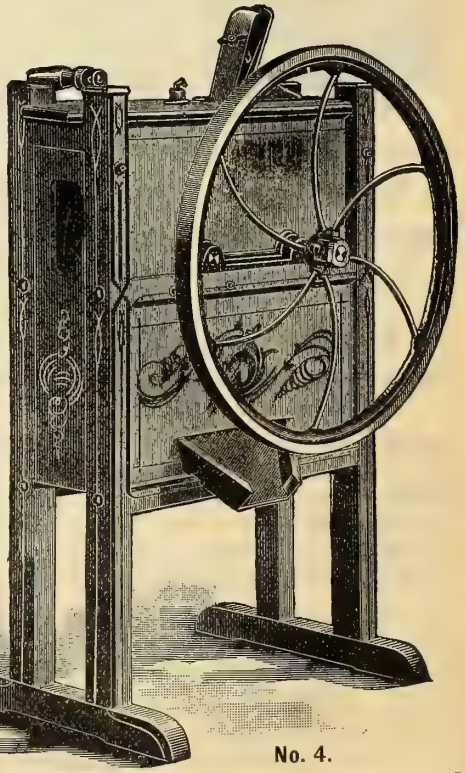
No. 6.

Single spout; corn and cob together. Capacity, 125 bushels per day.

Price, - - - - $5.50



No. 3.



No. 4.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CORN SHELLERS AND POWERS, Etc.

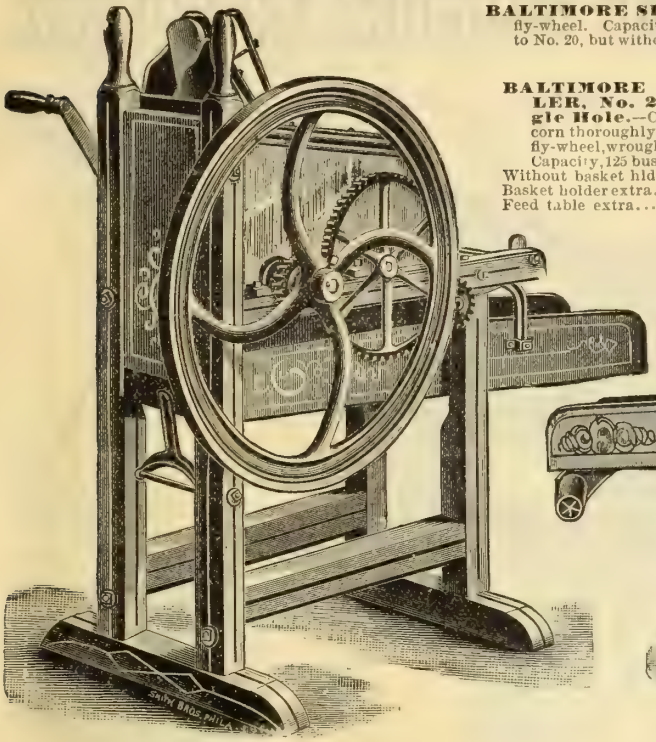
BALTIMORE SHELLER, No. 20, Double Spout.—Hand and Power, with shaker belt and fly-wheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels. Number 18 similar to No. 20, but without shaker and with screen at bottom to take out dust or dirt.

Price. No. 20, with shaker, **$14.00.** No. 18, **$12.50.**

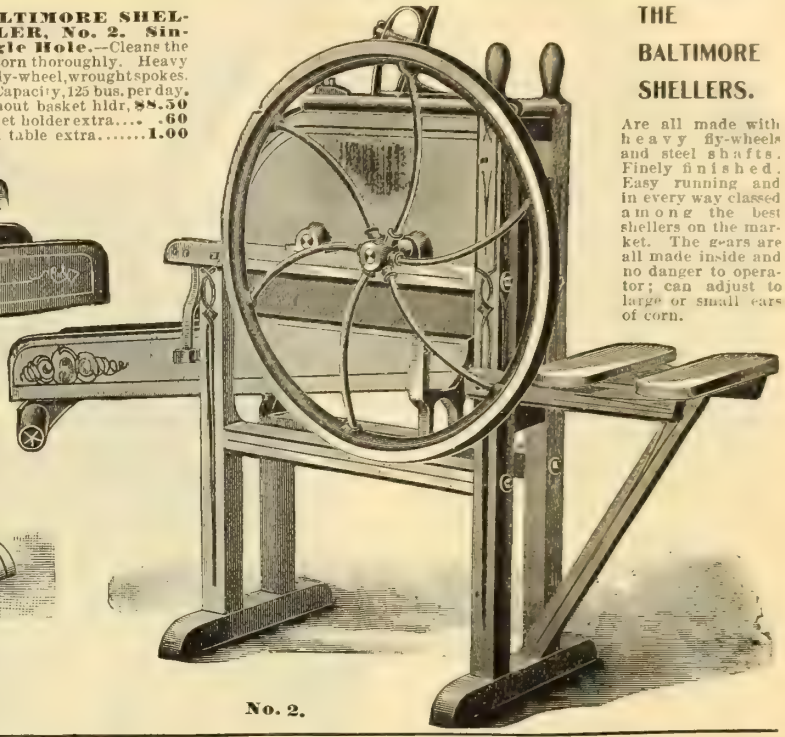
BALTIMORE SHELLER, No. 2. Single Hole.—Cleans the corn thoroughly. Heavy fly-wheel, wrought spokes. Capacity, 125 bus. per day.
Without basket hldr, **$8.50**
Basket holder extra.... .60
Feed table extra.....1.00

THE BALTIMORE SHELLERS.

Are all made with heavy fly-wheels and steel shafts. Finely finished. Easy running and in every way classed among the best shellers on the market. The gears are all made inside and no danger to operator; can adjust to large or small ears of corn.



No. 20.



No. 2.

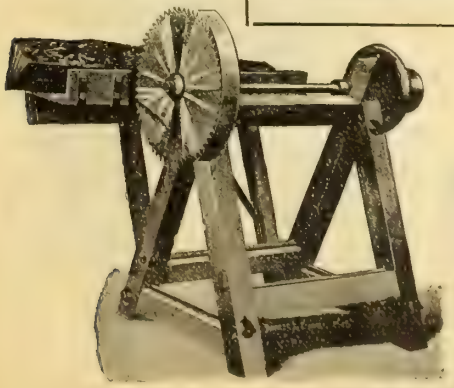
Circular Saw

WITH SWINGING TABLE.

Farmers and others who use saws can at once appreciate the great convenience of this machine. It has a swing table, which is the best style for cutting cord wood. One man can do the work with this saw as readily as two men on the regular style. In this machine the draft is direct from the power to the saw, consequently it takes less power to drive it.

List price, with 20-in. saw, - - **$40.00.**

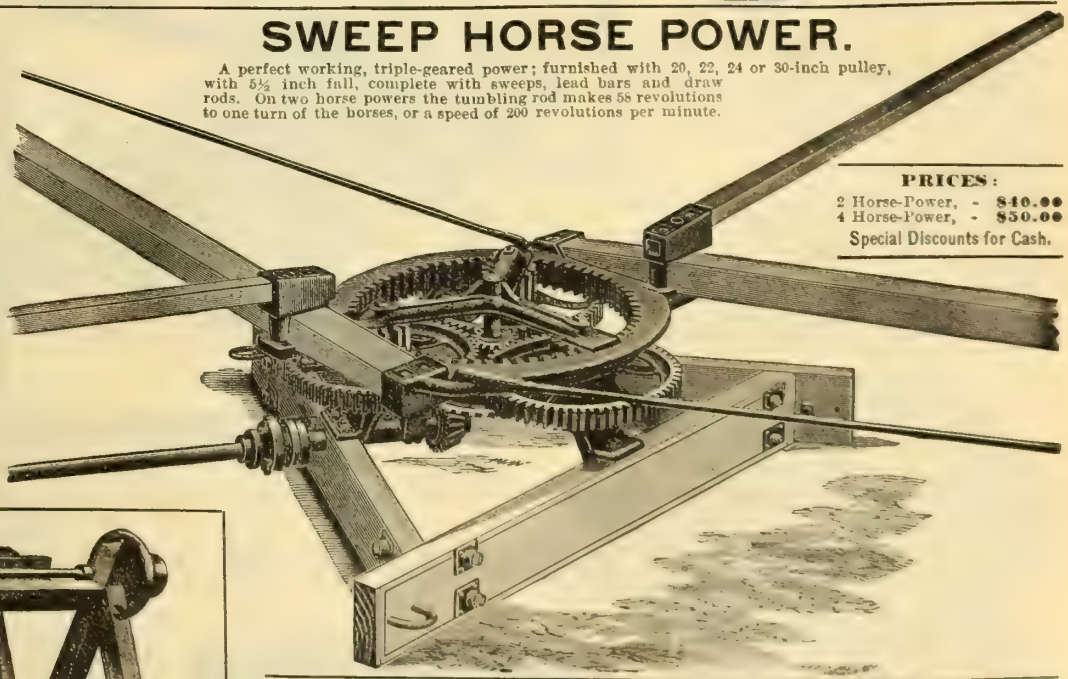
Write for Special Discounts.



SWEEP HORSE POWER.

A perfect working, triple-geared power; furnished with 20, 22, 24 or 30-inch pulley, with 5½ inch full, complete with sweeps, lead bars and draw rods. On two horse powers the tumbling rod makes 58 revolutions to one turn of the horses, or a speed of 200 revolutions per minute.

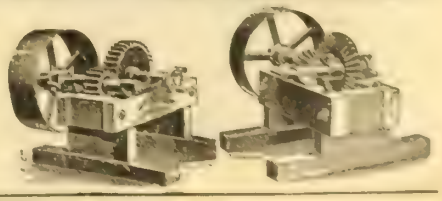
PRICES:
2 Horse-Power, - **$40.00**
4 Horse-Power, - **$50.00**
Special Discounts for Cash.



Spur and Bevel Gear Jacks.

This machine is intended to increase speed and transmit power by belt. The spur gear transmits the motion at a right angle with the tumbling rod, and the bevel gear transmits it in a line with tumbling rod. Price, - - - - - - **$12.00**

Special Discount for Cash.



ALL KINDS OF MACHINERY REPAIRED.

Cyclone Corn Husker and Shredder Combined.

PRICE.

Plain, . . $145.00
Elevator, . . 15.00
Trucks, . . . 20.00

Subject to Special Discount.

A MACHINE that will successfully husk your corn; place in your wagon box; cut and elevate your fodder where you want it, thereby saving it out of the weather; is of incalculable value. Too much fodder has been allowed to go to waste in the fields in shocks. The machine will do the work and do it clean. There is no wrapping around the cylinder because the fodder is cut short and torn into shreds.

The table is on an incline, (see Fig. 2), so the stalks, will slide down into the hopper, where they are caught by the rollers passing through the upper end, stripping off the ears; beneath the rollers you will see the cutter and shredder head, which cuts and shreds the stalks into the finest kind of fodder, and also the husks which are stripped off by the rollers will slide down into the blower fan where they are elevated to a receptacle by an air draft through a seven inch pipe, to a distance of twenty to fifty feet and more, wet or dry. If the fodder is to be elevated at different directions, a curve is made by an elbow. When the ears of corn are stripped from the stalk they continue sliding downward on the rollers, thereby being stripped off the husks and drop into a basket, or can be elevated into a wagon box by the corn elevator.

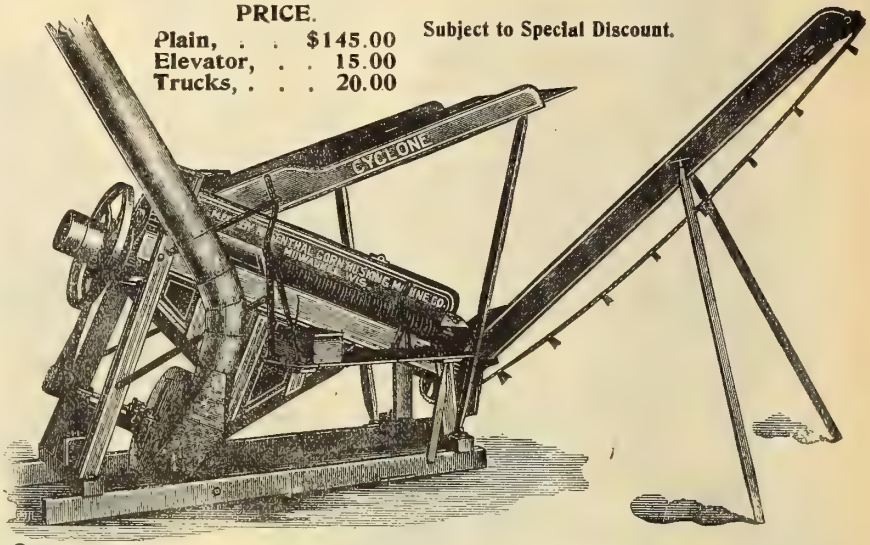


Fig. 2. — WITH CORN ELEVATOR.

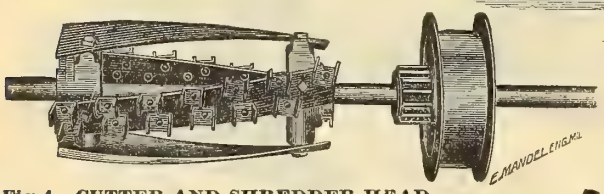


Fig 4.—CUTTER AND SHREDDER HEAD.

The Capacity is from twenty to sixty bushel baskets of ear corn per hour, depending upon the power the machine is run; also upon the condition and quality of the corn.

It requires from two to three men to operate the machine and is especially adapted for a farmer's own use.

The Fodder is cut in about two-inch lengths, shredded and split at the same time into the finest kind of fodder, which has proved to be far superior to all shredded or all cut fodder.

A combined Cutter and Shredder Head as used in our machines has to run only from 800 to 900 revolutions per minute, where a complete Saw Shredder head has to run from 1200 to 1400 revolutions per minute in order to keep from winding when the fodder is damp. Running only 800 to 900 revolutions it will naturally last longer and take less power to run it.

We sold one of these machines to Mr. H. C. Snavely of Sparrow's Point, Md., and append his testimonial: "I cannot speak too highly of the Cyclone Husker, it does the work perfectly, even better than you lead me to believe. It will pay for itself. Yours truly, H. C. SNAVELY."

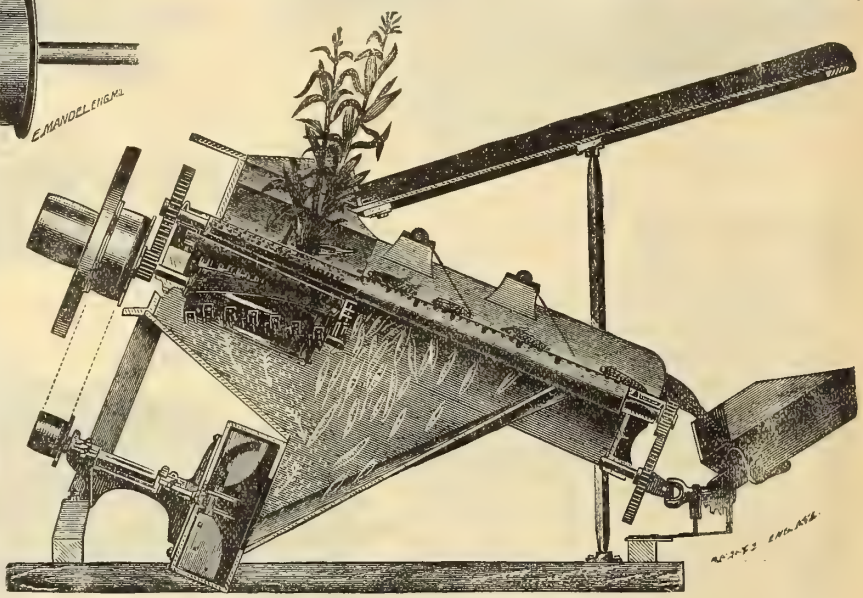


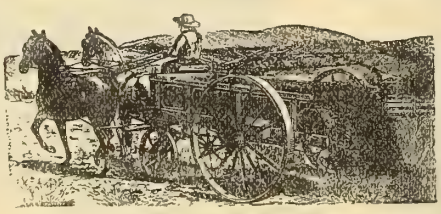
Fig. 5.—SHOWING INSIDE OF MACHINE.

Kemp Manure Spreader.

As a labor and material saver this is one of the most economical implements used on a farm. It will spread just the quantity desired and do it evenly, covering every square inch with finely pulverized manure in one-tenth the time required with shovels and forks. Drill attachment can be changed to lime hood, by removing the chutes and adding the lime board.

PRICES:

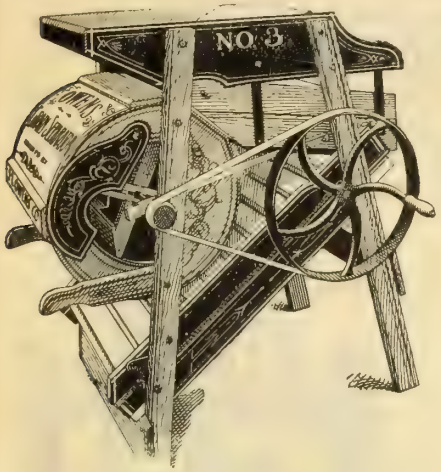
Size No. **1**, capacity 30 bushels **$100.00**
Size No. **2**, capacity 40 bushels..... **105.00**
Size No. **3**, capacity 50 bushels..... **110.00**



Drill attachment for leaving manure in rows, extra..... **$8.00**
Wind brake, or lime hood for windy weather, extra..... **5.00**
Brake or lock for hilly sections, extra **5.00**
Three-horse evener, extra **5.00**
Slow feed, for lime, ashes, etc., extra, **1.50**
Lugs, per set of 28 for use in frosty weather **2.25**
Whiffletrees, neck yoke and two-horse evener furnished free.
Size No. 2 comes nearer to general wants than any other.

SPECIAL DISCOUNT FROM THESE PRICES.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



The Owens' Fanning Mills.

The OWENS FANNING MILL has come to stay, as attested by our continually increasing sales. It has given perfect satisfaction wherever tried. It is a perfect cleaner of Oats, Barley, Peas, Beans, Clover, Timothy, Millet, Alfalfa, and for removing Cheat and Cockle out of Wheat. It will separate Mustard and all foul seeds from Flax, etc.

We furnish the Owens' Automatic Force Feeder with all mills. All of these Mills are end shake, with the exception of No. 20, which is side shake.

It will be noticed that in all other mills they depend entirely upon blast to clean the grain. While we have an equal amount of blast, we also have, in addition to it, a Cockle Separator, which removes all foul seeds perfectly. The Cockle Separator is constructed in such a manner as to allow the grain to pass over an inclined stationary sieve of proper mesh, the grain being kept in a horizontal direction by means of slats on a revolving canvas. By having the screen stationary we are enabled to use a sieve of much coarser mesh than can be used in other mills, and for this reason we are able to remove large foul seed from the small wheat. The grain is constantly kept parallel with the slats and a revolving motion imparted to it, so that all of the grain is brought in contact with the screen, and all foul seeds smaller than a kernel of wheat lengthways will fall through the screen, while the clean grain passes over and falls in front of the mill. By the same means the screen is kept constantly clean.

No. 3 FARM MILL.

Capacity, 30 to 40 bushels per hour. This Mill separates all foul seeds from Wheat, Oats and Barley, especially Mustard. Will also clean Flax from all foul seeds, as well as clean all kinds of Grass Seed. Price, **$18.50.** Special price for cash.

No. 3½ FARM MILL.

Capacity, 40 to 60 bushels per hour. Has all the merits of the No. 3, but has greater capacity and easier to operate, owing to its being made lower. It will also separate Oats from Wheat better than any other make of Mills. Price, **$21.50.** Special price for cash.

No. 5 FARM MILL.

Capacity, 60 to 80 bushels per hour. This Mill is larger than No. 3 and requires more power. Price, **$24.50.** Special price for cash.

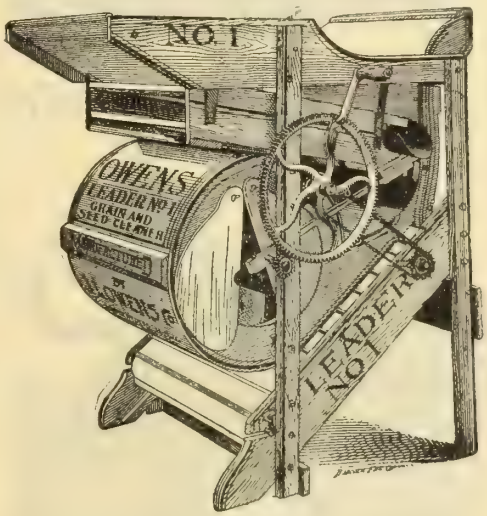
Owens' Fanning Mill

No. 20—SIDE SHAKE.

This Mill is much larger than the others, and is used more especially for warehouse purposes. It has the slatted canvas principle of the other styles. Capacity, 80 to 100 bushels per hour. Price, **$27.50.** Special price for cash.

OWENS' LEADER No. 1

Seed, Grain and Bean Cleaner, Separator of Cockle, Buckwheat and Mustard.



CAPACITY, 40 TO 50 BUSHELS PER HOUR.
Price.....$28.50.
Special price for cash.

A Few Testimonials from Persons Using the Owens' Fan.

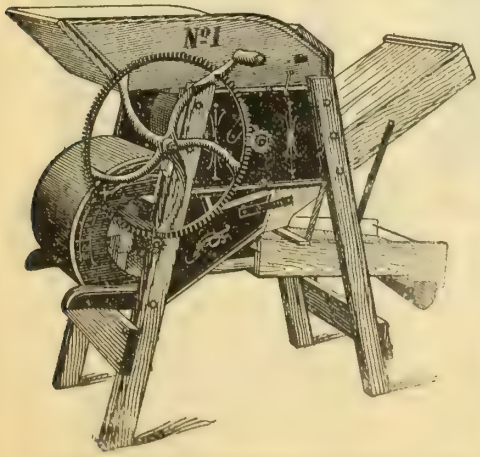
Messrs. Griffith & Turner Co.:
Gentlemen—We are handling your Owens' Grain Fan No. 20, and for removing cockle and cheat from wheat we do not think they can be surpassed.
Yours very truly,
ISAAC ROBINSON.
Chesapeake City, Md., Nov. 29.

Baltimore, Md., November 1.
Messrs. Griffith & Turner Co.:
Gentlemen—Having used your Owens' Fanning Mill this fall for cleaning seed wheat, it gives us pleasure to state that it is a most excellent machine for that purpose, and has done for us all you claim. Your very truly,
DUDLEY & CARPENTER.

Queen Anne, Md., October 14.
Messrs. Griffith & Turner Co.:
Gentlemen—The Owens' Fanning Mill has more than met our expectations for cleaning seed wheat. It has no competition from the fact that the screens are kept clean automatically, thus insuring a perfect separation at all times, which other mills fail to do. Very truly,
HACKETT & JUMP.

Federalsburg, Md.
Messrs. Griffith & Turner Co.:
Gentlemen—We have tried the Owens' Fan, and find it first-class for cleaning grain. Yours very truly,
J. M. WRIGHT

Owens' Pea and Bean Thresher and Cleaner



The sieves are made of best zinc, and screens of best steel-pressed wire, furnished with Force Feed End Shake, and the best Vertical Blast ever constructed. It works in all kinds of grains and seeds without any attachments. It has an adjustable Blast Shaft, so as to increase or diminish the force of the blast without increasing or diminishing the speed of the fan.

Made in Four Sizes for Hand and Power.

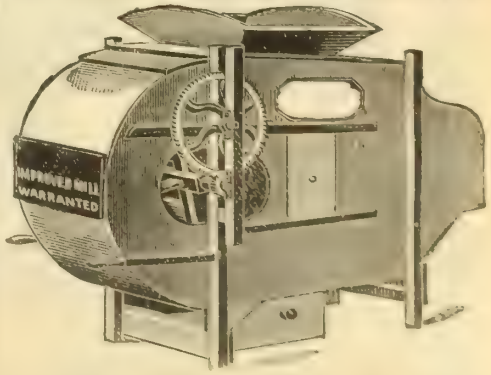
Capacity, 5 to 10 Bushels per Hour. Weight, 150 Lbs.

Price—No. 1, $25.00; No. 2, $35.00.
Special Price for Cash.

Your attention is called to the FLY-WHEEL on our machine, which makes it easy to turn, and gives it a steady motion, thereby cleaning the Peas and Beans perfectly, and also increases the capacity.

We use SHOES same as in our Fanning Mills, with End Shake. SIEVES can be used according to the size of Peas or Beans.

The BALTIMORE Improved GRAIN FAN

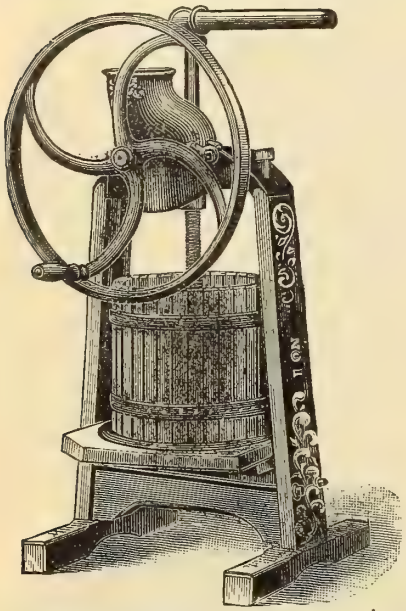


Good General Purpose Mill. Side Shake.
Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.
Price, $18.00. Special price for cash.

ALL KINDS OF MACHINERY REPAIRED.

CIDER MILLS AND PRESSES.

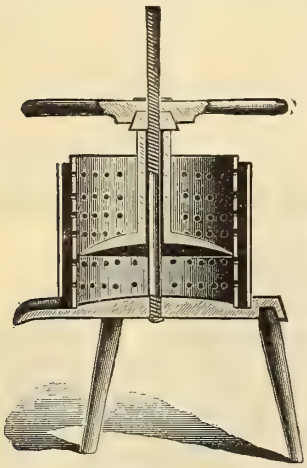
The "Baby" Wine and Cider Mill.



THIS is a very handy little mill for making a small quantity of cider, five or ten gallons at a time. All of the juice of the apples can be gotten out, but not so rapidly. It is really intended more for grinding grapes and other small fruit for wine, and is so constructed as not to crack the seed.

No. 0—Single Cage Mill.. $9.50
" 1— " " " .. 10.50

IXL Lard and Fruit Press.



WE desire to call your attention to the IXL Lard and Fruit Press, a cut and description of which is given herewith. Best simplest and cheapest. It is substantial and won't get out of order, and very easy to clean. A boy ten to twelve years old can operate it. By its use enough lard is saved in one season to pay for it. Good for pressing berries and small fruits. It will last a life-time, as all parts are made of heavy cast iron, while bowls are of the best galvanized steel. Whole height of press, 3 feet; size of bowl or drum, 10 inches in diameter; weight, 45 pounds.

Price $4.00

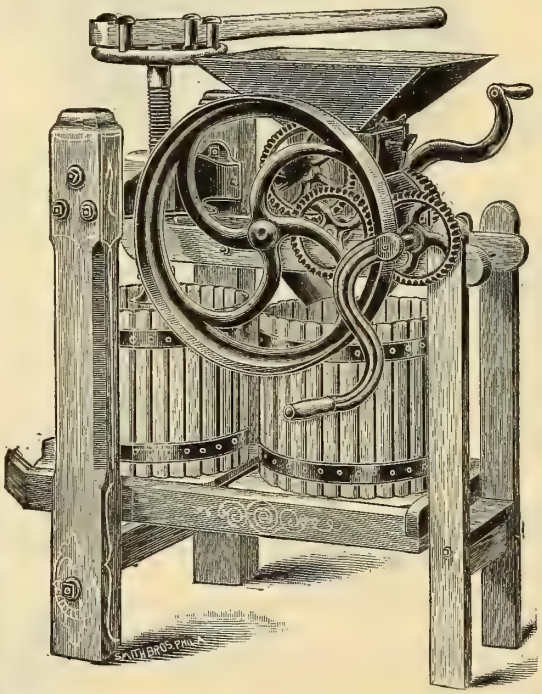
We also handle the ENTERPRISE Presses.

THESE MILLS are first-class in every particular, special pains being taken in the selection of materials. HARD WOOD FRAMES, HEAVY CAST IRON BEAMS and SET SCREWS, are unsurpassed in quality, durability and capacity.

The grinding apparatus is of the most satisfactory and latest improved pattern, and is made adjustable so as to grind both small and large fruit equally well.

The pomace is not left in lumps, but all the cells are crushed, consequently ALL the JUICE can be extracted by the press.

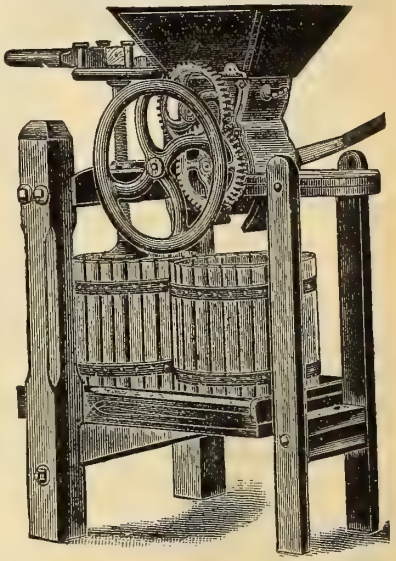
"Senior" Hand and Power Cider Mill.



THIS is our largest sized mill, adapted for hand or power, with a detachable handle on either side. The top set of rolls first mash the fruit fine, and the bottom set grinds it, thoroughly breaking all the cells, so that the cider is entirely extracted. These mills produce more cider to a given quantity of apples than any other mill on the market.

Price.....$22.50

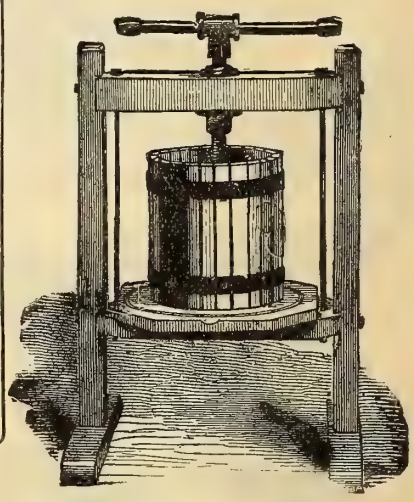
Medium and "Junior" Hand Cider Mill.



THESE Mills are almost identical with the "Senior," except they are smaller, and have only one handle. In the preparation of the pomace for cider, they are the same in all their parts.

Price, Junior.....$15.00
" Medium..... 18.00

~ Berry Press. ~



THIS little press is for the purpose of expressing the juice of grapes and other small fruits, for wine making. Strong and substantial. Made of oak staves securely bound with a rivet in each stave. Frame of oak and securely ironed, and will stand great pressure.

Berry Presses No. 1..... ....$5.00
" " " 2..... 5.50
" " " 3 . ... 7.25

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

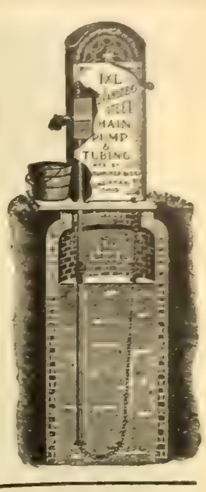
THE BALTIMORE PUMP.

With and Without Porcelain Cylinder.

PRICES OF PUMPS FITTED COMPLETE.

	6 x 6 Unlined.		6 x 6 Lined.		7 x 7 Lined.	
	LIST.	RETAIL.	LIST.	RETAIL.	LIST.	RETAIL.
Pump for 6-foot well...	$7.52	$5.26	$9.02	$6.31	$10.77	$7.53
" 8 "	7.86	5.50	9.36	6.55	11.11	7.77
" 10 "	8.20	5.74	9.70	6.79	11.45	8.00
" 12 "	8.54	5.97	10.04	7.02	11.79	[illegible]
" 14 "	9.16	6.41	10.66	7.46	12.41	8.68
" 16 "	9.54	6.67	11.04	7.72	12.79	8.95
" 18 "	9.92	6.94	11.42	8.00	13.17	9.20
" 20 "	10.30	7.21	11.80	8.26	13.55	9.48
" 22 "	10.68	7.47	12.18	8.52	13.93	9.75
" 24 "	....	....	13.18	9.22	15.18	10.62
" 26 "	....	....	14.18	9.92	16.43	11.50
" 28 "	....	....	15.18	10.62	17.68	12.37
" 30 "	....	....	16.00	11.20	18.50	12.95
" 32 "	....	....	16.80	11.75	19.30	13.51
" 34 "	....	....	17.60	12.32	20.10	14.07
" 36 "	....	....	18.40	12.88	20.90	14.63
" 38 "	....	....	19.20	13.44	21.70	15.19
" 40 "	....	....	20.00	14.00	22.50	15.75
" 45 "	....	....	22.00	15.40	24.20	16.94
" 50 "	....	....	24.00	16.80	26.20	18.34
	Special Disc. for Cash		Special Disc. for Cash		Special Disc. for Cash	

THE IXL GALVANIZED STEEL CURB.



It will not rust, being made out of No. 24 Gauge Galvanized Steel.

It will not rot or accumulate filth, and leaves the water clear and pure.

It is anti-freezing, as the reservoir piece h as a small hole in same, which allows the water to run out.

It can be used in wells as deep as 40 feet.

PRICES:

Galvanized Curb	$3.25
Tubing, per foot	.07
Coupling	.16
Rubber Buckets	.08
Iron Platform	4.00
Chain, per lb	.07

STANDARD LIST PRICES

Wood Pumps, Tubing and Extras,

To Take Place of Corresponding List Prices in Our 1900 Catalogue.

ADOPTED NOVEMBER 1st, 1899.

"No. O."—STOCK PUMPS.

SEVEN INCHES SQUARE, FOUR INCHES BORE.

Porcelain Lined, 6 feet long, in one piece	$8.75
" " 7 " "	9.50
" " 8 " "	10.00
" " 10 " "	11.25
" " 12 " "	12.50
" " 10 " Extension Cylinder	10.55
" " 12 " "	11.35
" " 15 " "	12.55
" " 20 " "	14.55
" " 25 " "	16.55
" " 30 " "	18.55
Without Lining, 6 " in one piece	7.00

"No. 1." THE FAVORITE HOUSE PUMP.

SIX INCHES SQUARE, THREE AND A-HALF INCHES BORE.

Porcelain Lined, 6 feet long, in one piece	$7.00
" " 7 " "	7.50
" " 8 " "	8.00
" " 10 " "	9.00
" " 12 " "	10.00
" " 10 " Extension Cylinder	8.70
" " 12 " "	9.50
" " 15 " "	10.70
" " 20 " "	12.70
" " 25 " "	14.70
" " 30 " "	16.70
Without Lining 6 " in one piece	5.50

PUMPS FOR DRIVE WELLS.

TO FIT 1½, 1¼, OR 2-INCH IRON PIPE.

No. 1 House, 6 feet long, Iron Cylinder attached	$7.50
" 6 " Porcelain " "	8.25

TUBING AND COUPLINGS.

No. 1 Tubes, 4x4, per foot (House and Stock)	$ .17
Same 12 feet long and over	.19
Extension Tube, 6x6 (Deep Wells)	.40
Couplings for No. 1 Tubing, with Bands	.50

National Chain Pumps.

This Wood Curb Chain Pump is first-class in every respect; nicely finished; nicely painted and striped.

PRICES:

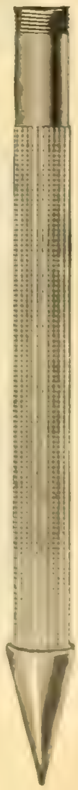
Chain Pump Curbs, each......... **$2.00**

Chain Pump Tubing, per foot.........**5c.**

Chain (running 4 to 4½ feet to pound), per pound. .....**7c.**

EXTRAS.

Extra Iron Spouts, Japanned, each	$ .30
" " " Patent Loose Collar	.40
" Wood Spouts, each	.15
" Braces for Wood Spouts, each	.15
" Iron Brackets, No. 36 and No. 35, each	.40
" " " No. 37, closed, each	.50
" Plungers, 5 inches, each	1.25
" " 4 " "	1.00
" " 3½ " "	.80
" " 3 " "	.65
" " Wood, per doz	3.00
" " Leather, "	3.50
" Handles, each	.30
" Handle Links, each	.25
" Bands, each	.10
" Check Valves, per doz	1.50
" Splice Straps, pair with bolts	.25
" Iron Pipe Connections, each	1.00
" Bucket Rods, per foot	.03
" Cork Lined Frost Faucets, each	.40



VICTOR EXPANSION RUBBER BUCKET.

For Chain Pumps. Anti-Freezing. Price.......**10c.**

IXL RUBBER BUCKET.

Price............................**8c.**

THE QUEEN.

Price.......................**7c.**

CROSBY SWIVEL LINK.

Price, Crosby Swivel Link, **9c.** Plain..............**8c.**

BRASS JACKET DRIVE WELL POINTS.

Numbers.	Diameter of Pipe.	Length Jacket.	Length Pipe.	No. Holes.	No. 60 Gauge per doz. List.	Retail Price each
90	1¼	18 inches.	24 inches.	100	Price $36.00	$ .90
94	1¼	24 inches.	30 inches.	130	Price 46.00	1.05
98	1¼	30 inches.	36 inches.	165	Price 56.00	1.40
102	1¼	42 inches.	48 inches.	270	Price 76.00	1.9[illegible]
136	1½	18 inches.	24 inches.	120	Price 48.00	1.2[illegible]
140	1½	24 inches.	30 inches.	162	Price 60.00	1.5[illegible]
144	1½	30 inches.	36 inches.	198	Price 72.00	1.8[illegible]
148	1½	42 inches.	48 inches.	276	Price 96.00	2.40

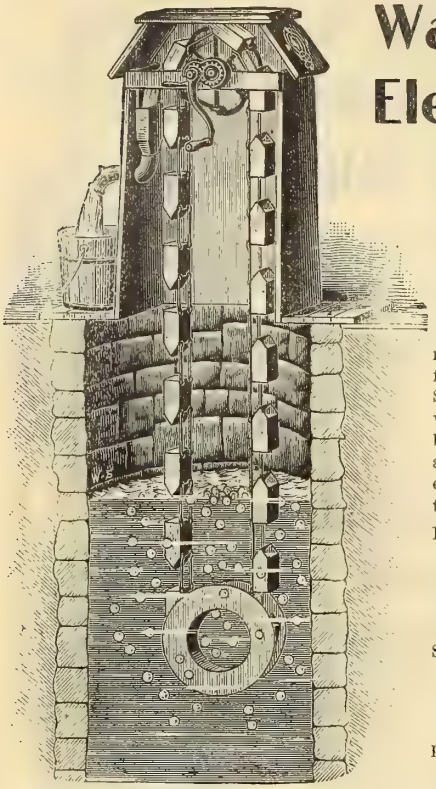


Fig. 18

Water Elevator and Purifier

Purifies water by means of oxygen forced into water. Strength, durability, workmanship cannot be surpassed. Pumps are carefully inspected before leaving factory.

Price—Elevator, with 25-foot Chain and Japanned Bottom Wheel for 10-foot cistern.....**$6.50**

Same with 30-foot Chain for 12-foot cistern.....**7.25**

Extra Chain, 15 cts. per foot.

Improved Close-Top Pitcher-Spout Pump

Fig. 19 represents our Improved Close-Top Pitcher-Spout Pump. The construction of this style of pump is so well known and understood by pump dealers everywhere that we deem it unnecessary to give any extended description of it here.

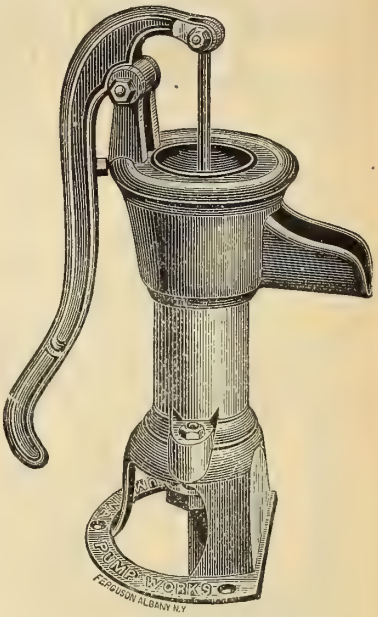


Fig. 19

SIZES AND PRICES.

No.	Diameter of Cylinder.	Suction.	Polished Iron Cylinder.	
1	2½ inches.	1 inch.	List, **$4.25**	Retail, **$1.06**
2	3 "	1¼ "	" **4.75**	" **1.20**
3	3½ "	1¼ "	" **5.25**	" **1.32**

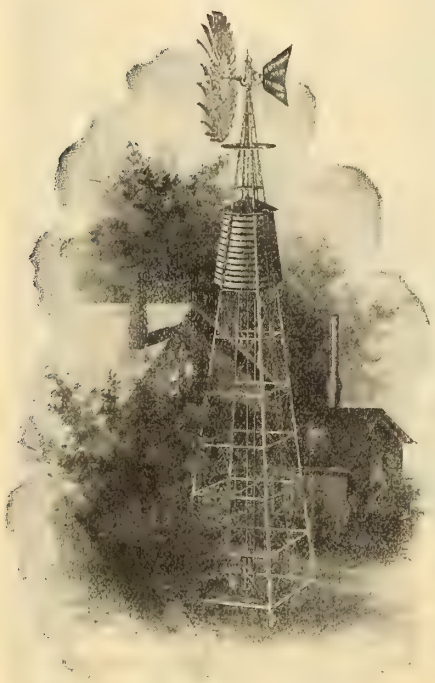
PITCHER PUMP LEATHERS.

No. 1—Valve and Plunger Leathers ..... each, **5c.**
" 2— " " " ..... " **8c.**
" 3— " " " ..... " **10c.**

Flint and Walling Steel Star Back Geared Wind Mill.

GEARED 2½ TO 1 ON 10-FOOT AND 3 TO 1 ON 8-FOOT MILL.

Built in the Blizzard and Cyclone Country.



SUBURBAN OUTFIT.

IN the mechanism of the Steel Star Back Geared Mill new features and old qualities are combined to make it better than ever before, and now the best. It is the lightest-running, most durable and best designed mill now offered to the public, because it is made of the best material and on the best principles throughout. The shafts are of cold rolled polished steel running in long journals of high-grade babbitt metal. The connecting rod, or pitman, is babbitted both ends, and all parts subject to a severe strain are forged of wrought iron. The rocker arm, or walking beam, connected with the pitman and pump rod, gives the latter a perfect vertical motion, without strain. The governing device is controlled by a series of levers which are easily operated, requiring little force to pull mill out of gear. The brake is attached directly to hub of wind wheel, where it has perfect control over same. When the brake is tightly set it is impossible for the mill to revolve, remaining so until the wind slackens, when it goes to work again automatically without further assistance. No spring to weaken and break with the governing device, which is always the same in force and can be readily adjusted to work in any speed wind. Made in 4, 6, 8, 10, 12, 14 and 16-foot sizes.

The Wheel is one very important factor to the windmill—it is the generator of power—and should be of great strength and durability. Our wheel construction, when completed, forms a truss, which has stood the assaults of storms for years without signs of weakness. The fans, or sails, are firmly riveted to the rims with one-piece brackets, and are of the proper width, curvature and strength to give the best possible results. After each section is riveted together it is thoroughly cleansed and dipped in pure zinc or spelter, thus soldering all parts and coating the entire surface, protecting the steel from the elements. We can furnish the wind mill either with or without tank, as seen in cut. Prices on application.

With each mill is furnished **free** our Reefing Gear for pulling mill out of gear when not in use.

FAULTLESS FORCE TANK PUMP,

Low Down, Double Acting, Fig. 805.

CAPACITY two thousand gallons per hour. Fitted for hose and two-inch pipe. Handle can be changed to opposite end. The cylinder being horizontal, great strength is gained. Cylinder 5 inches diameter, 5-inch stoke, 2-inch openings for suction and discharge. Plunger is solid; no valves to get out of order, and moving it in cylinder forms suction, which fills cylinder and at same time drives water out at other end. Then, on return stroke, this water is driven out and cylinder is refilled from other end. Will throw water 60 feet from point of nozzle.

This Pump is practicable for filling thresher tanks, washing out boilers; for use in shallow stock wells, draining cellars and barnyards, and washing wagons, spraying fruit trees, putting out fires, and general use on a farm. It is fitted with drip cocks to drain cylinder.

Price—Pump, with hose nipple, hose attachment, hoseband and strainer, **$7.00**

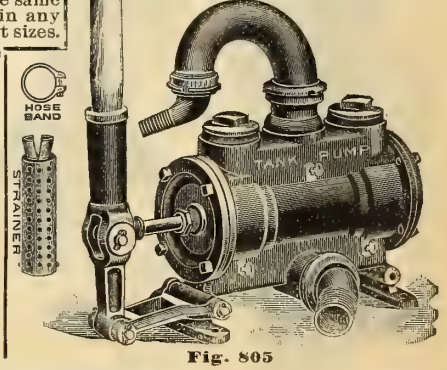


Fig. 805

Force and Lift Iron Pumps

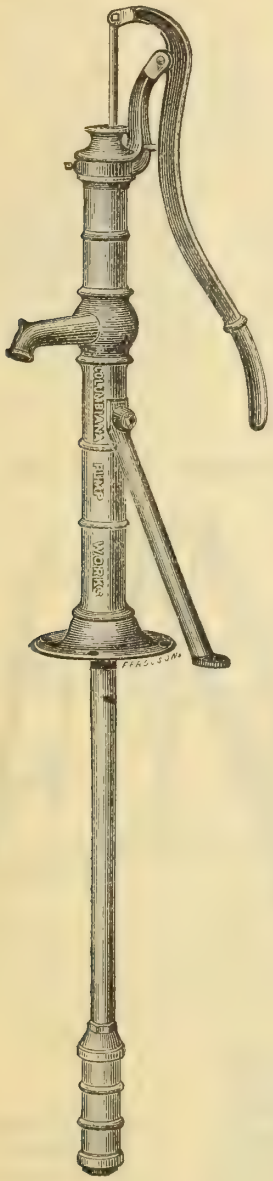


Fig. 29.

New Style Anti-Freezing LIFT PUMP.

This cut, Fig. 29, represents our new style Anti-Freezing Well and Cistern Pump. Has wrought iron set length which is connected in the standard just below the spout. It is made with adjustable lever and is provided with a strong brace. This Pump is of good proportions, handsome in appearance and is made strong and durable.

Fig. 29, Size and Price.

Size, 3x10; iron cylinder.

List $6.50
Retail 4.00
Weight, about 60 lbs.

Fig. 82.

HAS ADJUSTABLE

Base and Brace.

CONSTANT THROWING. NON-FREEZING.

WITH FORCE PUMP ATTACHMENT.

Our new Fig. 82 Lift Pump is adapted to wells as deep as 100 feet. It throws a constant stream. It is the best pump on the market today for the money.

In ordering Pumps, dealers should remember that all 2½ and 3 inch Cylinders are tapped for 1¼ inch suction pipe and 3½ inch Cylinders are tapped for 1½ inch suction.

Size and Price of Fig. 82.

Size, 3x10; iron cylinder

List $9.50
Retail 6.50

Do not forget to mention if you desire inside or outside cap cylinders, also if you desire **Iron, Brass Lined or Brass Body Cylinders.**

Weight with 2½ in. Cylinder 57 lbs.
" " 3 " " 62 "
" " 3½ " " 75 "

Fig. 50.

NOTICE ERROR.
THESE TWO PUMP CUTS SHOULD
HAVE BEEN REVERSED.

SUPREME DOUBLE ACTING

FORCE PUMPS.

No.	Lower Cyl. Brass Body	Upper Cyl. Brass Lined	Size of Suct'n Pipe	Length of Stroke	For Wells Feet
4	3x12	2in.	1¼in.	6in.	25to50

Hand Top.....List, $15.00; Retail, $9.00
Windmill Top...List, $16.50; Retail, $10.00

Our "SUPREME" is a Strictly Double Acting Force Pump, has 1 inch discharge pipe carrying water direct from suction pipe to the spout, other pumps of this class have either ¾ inch discharge pipes or inside castings with holes where the water is more or less obstructed. This pump has no packing or stuffing box at the top of the air chamber, it is so constructed that the rod works through without coming in contact with the water. The handle is reversible, the base and brace adjustable. Hose connection and strainer furnished with each pump.

In ordering, do not fail to specify figure number, and size of lower cylinder.

Fig. 70.

THE

Record FORCE PUMPS.

THE RECORD pleases everybody, has a wooden handle, 10 inch stroke, adjustable base and brace, and throws a constant stream. Suitable for cisterns or wells of any depth to 200 feet.

PRICE.

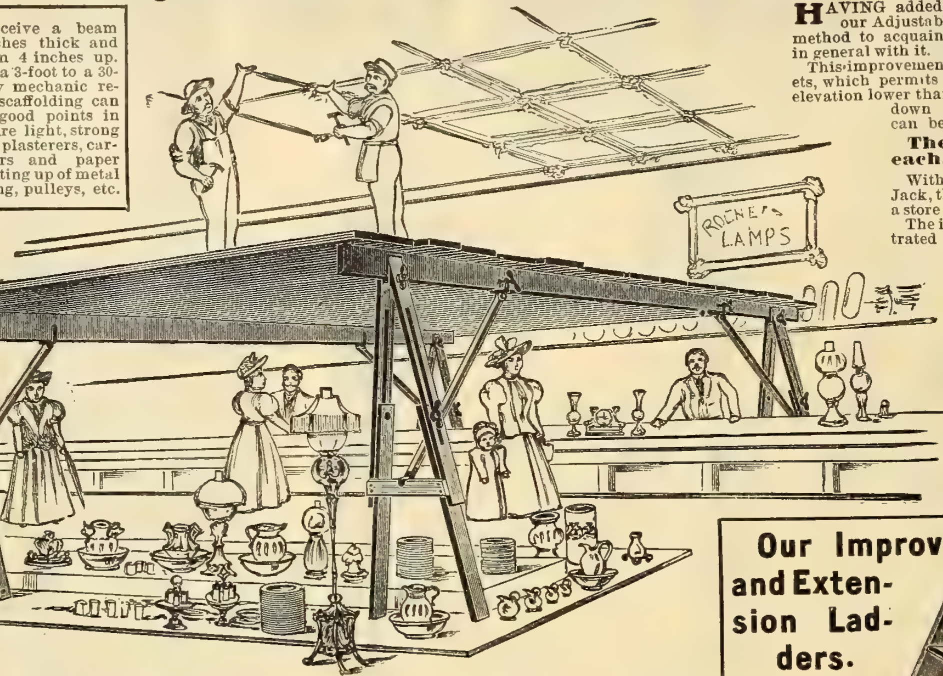
2½x16 Brass Cylinder [illegible] suction.

List $15.50
Retail 9.00

Griffith & Turner Co.

Tilley's Adjustable Patented Scaffolding Jacks.

They will receive a beam from 1 to 2 inches thick and any width from 4 inches up. Can be used on a 3-foot to a 30-foot beam. Any mechanic requiring inside scaffolding can readily see the good points in these Jacks. Are light, strong and suitable for plasterers, carpenters, painters and paper hangers, the putting up of metal ceilings, shafting, pulleys, etc.



HAVING added a valuable improvement to our Adjustable Scaffold Jack, we take this method to acquaint our customers and the trade in general with it.

This improvement consists of suspension brackets, which permits of making a scaffold at any elevation lower than the height of the Jack when down to its limit. These brackets can be used with Jacks already sold.

They cost but 60 cents each.

With them and the proper size Jack, the Scaffold can be made to fit a store or basement.

The iron brackets or arms, as illustrated in Fig. 1, are used when platform is wanted on one horse. These brackets are hooked into malleable castings at top of leg and will support a platform two feet wide the whole length of horse. This furnishes a convenient arrangement for moving about. working side walls, or to use in narrow hallways.

Price, 85 cents per set (4), net.

Fig. 2 shows 2 Jacks represented in Fig. 1 as "knocked down." It is unnecessary to comment upon its compact form.

					Per Jack.
No. 5.	Stands 3 ft. high, will extend to	5 ft.	$3\frac{1}{4}$ x $1\frac{1}{4}$ slotted leg; $3\frac{1}{8}$ x $1\frac{1}{8}$ traveling leg	....	$2.50
No. 6.	" 4 " " "	6 ft.	" "	....	2.50
No. 7.	" 5 " " "	8 ft.	" "	....	2.80
No. 8.	" 6 " " "	9 ft.	" "	....	3.20
No. 9.	" 7 " " "	11 ft.	" "	....	3.55
No. 10.	" 8 " " "	12 ft. 6 in.	" "	....	3.80

EXTRA HEAVY FOR PLASTERERS AND MILL WORK.

No. 11.	Stands 4 ft. high, will extend to	6 ft.	4 x $1\frac{1}{4}$ slotted leg; $3\frac{7}{8}$ x $1\frac{5}{8}$ traveling leg	....	$2.90
No. 12.	" 5 " " "	8 ft.	" "	....	3.20
No. 13.	" 6 " " "	9 ft.	" "	....	3.60
No. 14.	" 7 " " "	11 ft.	" "	....	4.00
No. 15.	" 8 " " "	12 ft. 6 in.	" "	....	4.30
No. 16.	" 10 " " "	16 ft.	" "	....	5.00

Nos. 8 and 13 have an extra end brace on slotted legs, with iron brace at each end of same. Nos. 9, 10, 14, 15 and 16 have extra end braces, same as 8 and 13; also have an extra grip on friction bolt in each traveling leg, making the Jacks much stronger than formerly. There have been several valuable improvements made in the details since the issue of former, or 1894, price list.

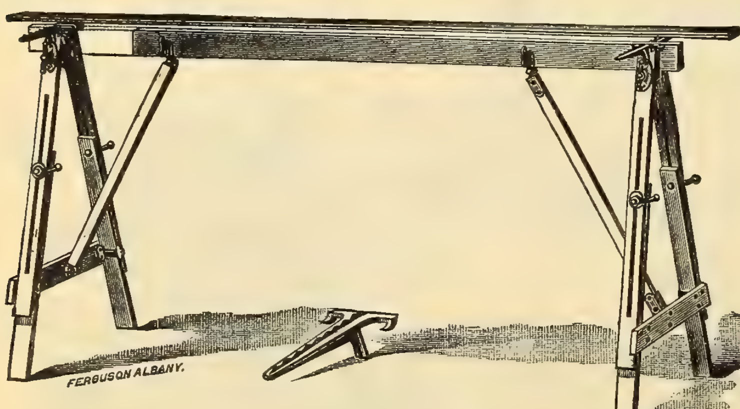


FIG. 1.

Our Improved Tilley Step and Extension Ladders.

EUREKA—well adapted for any use to which step-ladders are put. It has a special style of hinge, connecting front and back, bolted on, rodded, and well braced with iron. Some prefer the open back, detached, as it admits of using a plank to make a platform more readily.

Fig. 2.

PRICES STEP LADDERS, With Pail Rest

5 foot........	$2.00
6 foot........	2.50
8 foot........	3.00
10 foot........	3.50
12 foot........	4.50

Other sizes on application.

Our Improved Tilley Extension Ladders.

These Ladders are stiff, strong and well built. Have Improved Patent Spring Locks attached to traveling section, and are automatic in action. These locks are fastened securely to the inner sides of upper section, and made of the best malleable iron. They are also provided with a durable spring, which keeps the hook thrown forward and grasps each round of the stationary ladder as the traveling ladder passes upward. A tripper forces the hook back, allowing it to pass the rounds when descending.

PRICES.

24 ft.—2 12-ft.	sections,	extends	21 ft......	$6.00
26 " —2 13-ft.	"	"	23 "	6.50
28 " —2 14-ft.	"	"	25 "	7.00
32 " —2 16-ft.	"	"	29 "	8.00
36 " —2 18-ft.	"	"	33 "	9.00
40 " —2 20-ft.	"	"	36 "	12.00

Other Lengths Given on Application.

Also furnish single ladders, made of Spruce, with hand shaved Oak Rounds, first-class in every particular, 12, 14, 16' 18 feet. Price, 15c. per foot. Ladders over 18 feet, 2c. per foot extra.

ALL KINDS OF MACHINERY REPAIRED.

Bent Rung Step Ladders, Extension and Single Ladders.

A 16-foot Single Ladder only weighs 21 to 25 pounds By drawing out a small rod at top of step-ladder, it can be converted into two separate ladders. These goods are made nearly altogether by hand, and are very much superior to factory ladders. No holes are bored in the side pieces, thus making them the strongest and lightest ladders made. The rungs are made of toughest hickory. A slight grove in the side pieces, in which the rungs are set, acts a brace and aids to stiffen the ladder.

SINGLE LADDERS.

Less 30 per cent. from the following prices:

8 feet	$2.00	12 feet	$3.10	16 feet	$4.30
10 "	2.50	14 "	3.70	18 "	4.90
		20 feet	$5.60		

STEP LADDERS.

Less 40 per cent. from following prices.

4 feet	$3.00	6 feet	$4.00	9 feet	$5.50
5 "	3.50	7 "	4.50	10 "	6.00
		8 "	5.00	12 "	9.00

EXTENSION LADDERS.

Less 35 per cent. from the following prices:

TWO LADDERS.			TWO LADDERS.		
Each.	Extended.	Price.	Each.	Extended.	Price.
10 feet	17 feet	$7.40	16 feet	29 feet	$12 20
12 "	21 "	8.90	18 "	33 "	14.40
14 "	25 "	10.40	19 "	35 "	15.20
15 "	27 "	11.20	20 "	37 "	16.00

HASTING'S STEP LADDER,

With up-right support under each step. Stiff, strong and durable. First-class in every particular. All lengths from 6 to 10 feet at **18c.** per foot.

WETTLING STEP LADDER.

Good quality. All lengths from 4 to 10 feet at **15c.** per foot.

SPECIAL PRICES IN QUANTITIES.

SCYTHE SNATHS.

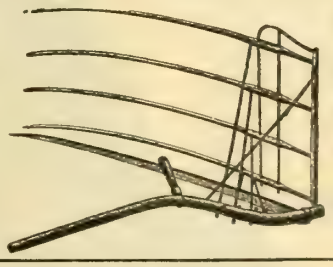
No. 80—Ring Fastening Socket, Iron Trimmed, retail price ..... **55c.** List price ..... **$ 9.50.**
No. 55—Patent Loop, Solid Plate, Iron Trimmed, " ..... **65c.** " ..... **11.50.**
No. 100—Two Rings, Bush Snath, " ..... **70c.** " ..... **12.50.**

HARTMANN IMPROVED HITCHING POST.

Cannot be broken or pulled out.
Made of tubular steel, thoroughly painted.
Anchored at the bottom and at the ground level.
These Posts furnished with Weldless Steel Chain and Spring Snap complete.
Price, complete ..... **$1.75.**

SCYTHES.

American	$ .90
Best American	1.00
Bush or Brier Scythes	1.00
English T. Waldron, 36 inches	1.35
" " 38 inches	1.40
" " 40 inches	1.45
American Grain Scythes	1.50
English Waldron Grain Scythes, 50 inches	1.75
" " " 52 inches	1.80
" " " 54 inches	1.90



HAND-MADE GRAIN CRADLES.

Made from the Best Material with English and American Blades.

Hand-Made Schwab Cradle, with English Waldron Blade, retail	$4.00
Hand-Made Schwab Cradle, with American Blade, retail	3.25
Factory-Made Cradle, American Blade, five fingers complete with Scythe	3.00
Factory-Made Cradle, American Blade, six fingers complete with Scythe	3.25

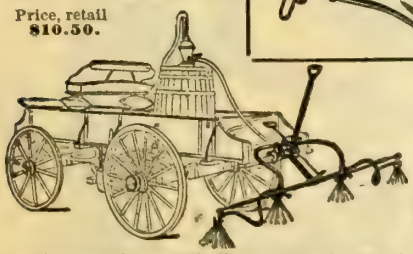
SCYTHE STONES.

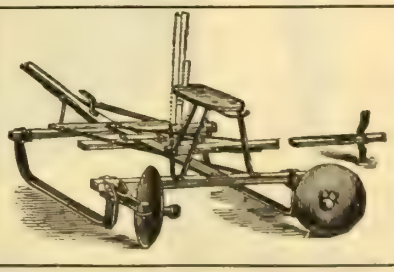
No. 1.—Willoughby Creek, **10c.**, **$1.00** doz.
No. 2.—White Mountain....**10c.**, **$1.00** doz.
These are far superior to Darby Creek and not so easily broken.
No. 3.—Green Mountain... ....**8c.**, **75c.** doz.
No. 4.—Ind. Pond No. 2 (red end)5c., **50c.** doz.
No. 5.—Mowing Machine (beveled), **10c.** each.
No. 6.—Darby Creek.....**10c.**, **$1.00** doz.
No. 7.—Imported English Talacre, **20c.** each
None genuine unless labeled Sir Pyres Mostyn, Talacre Quarries.
Cigar Emery.....**10c.** each.

OAT and BARLEY FORKS

Price.....**65c.**, **$7.20** doz.

Price, retail **$10.50.**



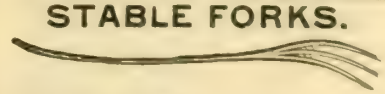


DARNELL'S IMPROVED PATENT FURROWER AND MARKER.

Strong, light and durable. A half dozen tools in one, and each worth the purchase price.
Runs steadily and cannot be choked. Adjustable throughout. Gauge self-adjusting to all inequalities of ground. Every part well made of good material and no end to its wear and usefulness. Broad runners of wrought T angle iron with rib to prevent sliding on side hill. Revolving discs or furrowers, fifteen inches in diameter, with chilled hub and steel axle, cutting a clean, straight furrow. Shipping weight, 140 lbs.
Price **$18.00**

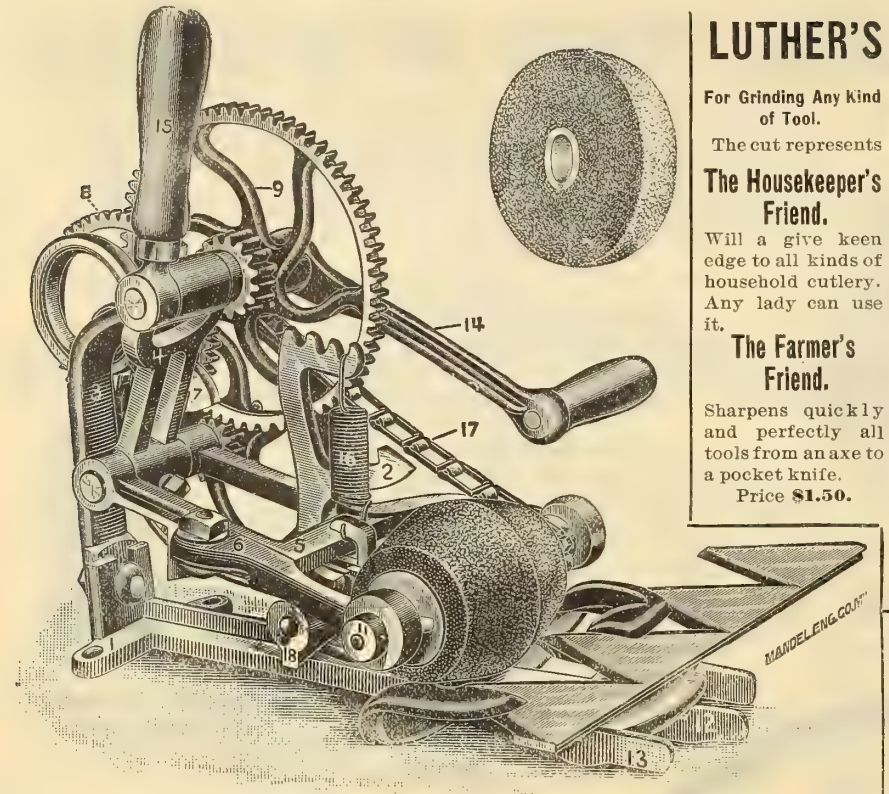
The Potato Spraying Appliance shown in the accompanying cut is intended to be attached to any Barrel Sprayer. The outfit may be placed on the end of a wagon or truck, and the two sections of hose connected with the spray pump. The four Bordeaux Nozzles are adjustable for any width of rows, from 30 to 40 inches, and may be raised or lowered as desired. The nozzle should be directly over the rows to be sprayed. The nozzle holders may be brought together so that the wagon can pass through any gate. The machine has a a long arm used for setting the row of nozzles at a higher or lower point.

STABLE FORKS.



Three-Prong Ash Bonner	50c
Three Prong Oak Wood Stable Forks, Bonner	60
Four-Prong Oak Wood Stable Forks	75

ALL KINDS OF MACHINERY REPAIRED.



LUTHER'S EMERY TOOL GRINDER.

For Grinding Any Kind of Tool.

The cut represents

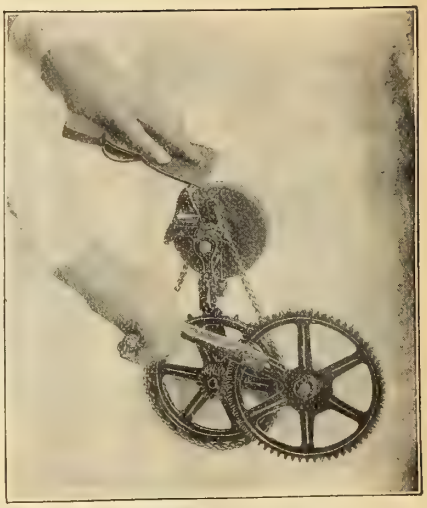
The Housekeeper's Friend.

Will a give keen edge to all kinds of household cutlery. Any lady can use it.

The Farmer's Friend.

Sharpens quickly and perfectly all tools from an axe to a pocket knife.

Price **$1.50.**



STEEL FRAME GRINDSTONE.

With this frame we have no loose joints because being of steel, and all in one piece, there are no bolts to loosen or mortices to rot, which happens with the old style wood frame.

Price.
No. 1.....**$3.50**
No 2..... **3.25**
No. 3..... **3.00**

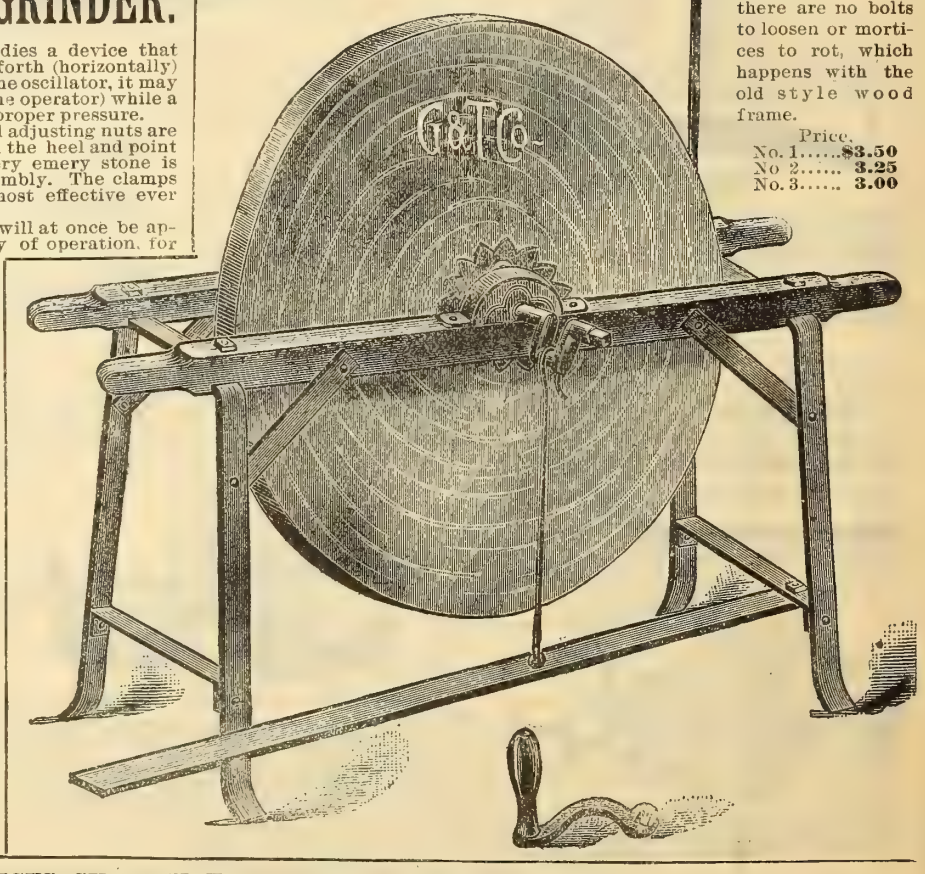
LUTHER'S SICKLE GRINDER.

The improvement in this machine embodies a device that automatically drives the emery back and forth (horizontally) over the sickle (or by the simple lifting of the oscillator, it may be controlled by hand and at the will of the operator) while a finely tempered steel spring gives just the proper pressure.

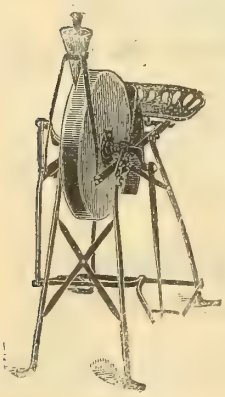
Ingenious and almost frictionless tapered adjusting nuts are employed for lifting the emery stone from the heel and point of the sickle at any place desired. Every emery stone is **guaranteed** against being too soft or crumbly. The clamps for holding sickle are the simplest and most effective ever placed on an article of this kind.

The advantages of the above features will at once be apparent to the experienced. For simplicity of operation, for workmanship, durability and strength, Luther Bros. and Neuens Automatic Sickle and Tool Grinding Machines are preeminently in the lead and winners of trade wherever used.

Price **$4.00.** Same with foot power **$5.00.**



SCHOFIELD STEEL FRAME BI-TREADLE GRINDSTONE.



This is without doubt one of the handiest implements on the farm. No necessity to call a boy to turn the stone, the work being done with both feet, as its name indicates It has also a self-watering attachment.

Price, Stone and Frame, complete, **$5.25.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CHAINS, AXES, OIL CANS, Etc.

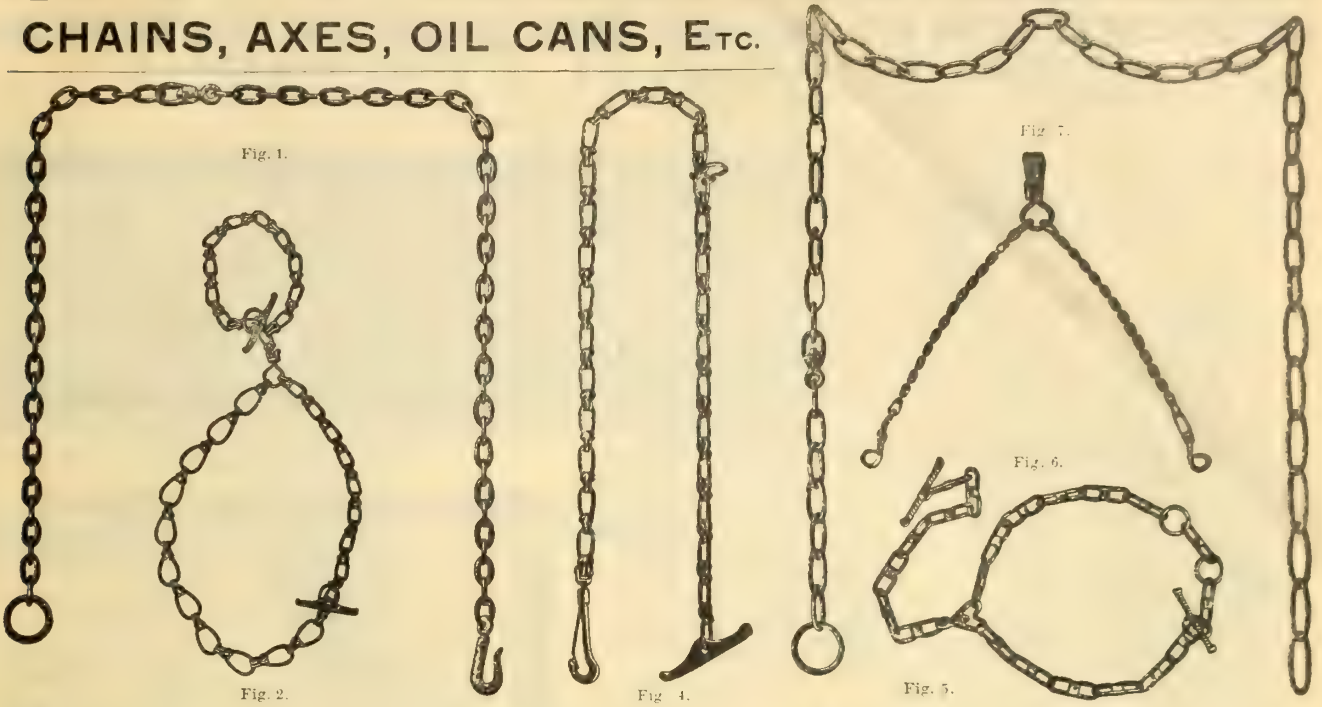


Fig. 1. Fig. 2. Fig. 4. Fig. 7. Fig. 6. Fig. 5.

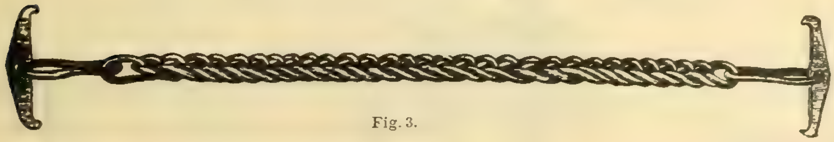


Fig. 3.

Fig. 1—No. 67—Fifth Chain, round hook, ring and swivel, bright or black, made with stretchers also if desired.

No. 67—10 x ⅜, with Reg. Hook	$1.75
No. 68—10 x ⅜, with Patent Hook	2.40
No. 1—Pennsylvania Pattern, black, stiff, heavy	6.00

Figs. 2 and 4—Triumph Chains, very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No. 3-0—Triumph Cow Tie (Ohio pattern)	Each	$ .30
No. 4-0—Triumph Cow Tie (Ohio pattern)	Each	.35
No. 3-0—4½ ft. Triumph Halter Chain	Each	.30
No. 3-0—6 ft. Triumph Halter Chain	Each	.35
No. 5-0—7 ft. Triumph Trace Chains	Per pair	.70
No. 6-0—7 ft. Triumph Trace Chain	Per pair	.80
No. 5-0—3½ ft. Triumph Butt Chain	Per pair	.45
No. 6-0—3½ ft. Triumph Butt Chain	Per pair	.50
No. 2—6 ft Triumph Kennel Chain	Each	.40
No. 1—20 ft. Triumph Tethering Chain	Each	.90
No. 0—20 ft Triumph Tethering Chain, heavy	Each	1.00

Fig. 7.—Regular Iron Traces.

	Retail Price.
7, 8, 2	$ .40
7, 10, 2	.50
7, 12, 2	.60
7, 14, 2	.70
7, 16, 2	.80

Fig. 3—Breast Chains.

Double Stiff, 5-16	Pair $1.25	Double Slack	Pair $ .80
Double Stiff, ¼	Pair 1.20	Single Slack	Pair .60

Fig. 5—Patent Sleeve Chain. It is made from steel wire with the ends of the metal inserted into a closely fitting malleable iron sleeve. As these ends abut against the continuous portion of the link, they form a cross-bar, and the more strain placed on the link the tighter the ends are forced together. This chain is the only patented chain which has no Unprotected Ends, and is free from obstructions and projections. We offer same in Cow Tie and Long and Short Traces, No 6 size.

Cow Ties .... Each 30c.

Fig. 6—No. 71—Spreader Chains, Pennsylvania Pattern, black or self color, Stiff		$3.25
No. 73—Repair Links, polished	Doz.	.15
No. 75—Open Side Links, polished	Each	.10
No. 58—Long Link Log or Ox Chain, 12 x ⅜		1.75
14 x ⅜		2.00
14 x ½		2.50
14 x ⅝		3.00
No. 46—Cart Tug Chains	Per pair	.30

AXLE GREASE, OILS AND OIL CANS.

Per box	Royal	$ .05	Mica, 10 lb. pails	$ .75
15 lbs. in pails.	"	.75	Mica, 15 lb. pails	1.00
25 lbs. in pails.	"	1.00	Mica, 25 lb. pails	1.25

Mica, in wood, ... Per box, **10c**, 3 for **25c.**

We are headquarters for a full line of Lubricating Oils. **No. 1 Castor Oil, price 75c. per gallon.** Special prices in barrel and half-barrel lots.

Deering Harvester Oil.

Five Gallon Can	$2.25	One Gallon Can	$ .60
Three Gallon Can	1.50	One-half Gallon Can	.40

Special prices on one-half barrel and barrels.

Separator Oil, for Cream Separator, gallon can, **$1.00,** 5 gallon can, **$4.00.**

Oil Cans.

We carry in stock a full line of Oil Cans for all kinds of farm machinery, including the Oval, Round, Dome and Chase styles.

No. 699—Bent or Straight Stem, Oval.	10c.
No. 698—Bent or Straight Stem, Round	10c.
No. 700—Dome	10c.
No. 3—Chase	15c.

Fig. 698.

Fig. 3—Chase.

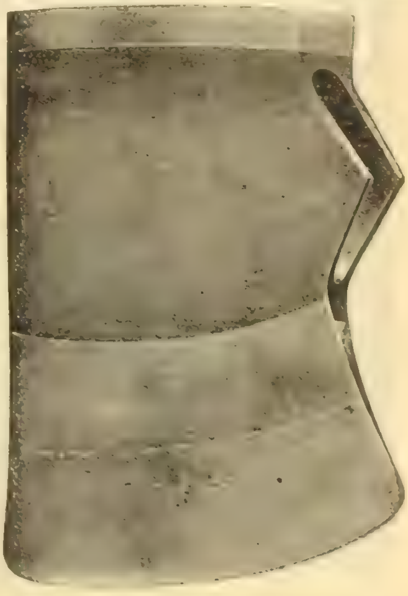
AXES.

In Axes we carry the best lines only. We aim to sell only those we know to be first-class in every respect and that have an established reputation.

	Retail Price Each.
Wm. Mann's Celebrated Red Warrior Axes.	75c.
W. Stewart's Superior Steel Axes	75c.
Robt. Mann's Superior Steel Axes, Extra Steeled	70c.
Marshall Bro.'s Superior Steel Axes	65c
Hatchets, Half Pattern and No. 2 Shingling.	25 to 60c.

AXE HANDLES.

No. X—Extra Selected 2nd Growth all White Hickory Axe Handles, each	25c.
No. 1—Selected White Hickory Axe Handles	20c.
No. 2—White and Red Hickory Axe Handles	15c.
No. 3—White and Red Hickory Axe Handles	12c.



BALTIMORE JERSEY PATTERN.

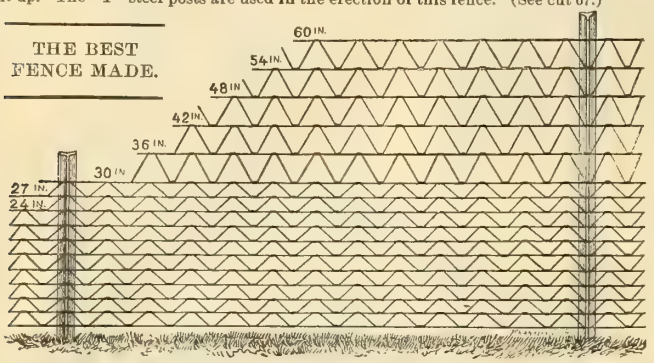
ALL KINDS OF MACHINERY REPAIRED.

FENCING and STRETCHERS

HARTMANN "STOCKADE" WOVEN WIRE FENCE.

Strong, Durable, Cheap, Ornamental. Convenient, because easy to handle. Quickly put up. The "Y" steel posts are used in the erection of this fence. (See cut 67.)

THE BEST FENCE MADE.



This fence, made in various heights for hogs, sheep, cattle and horses, is composed of horizontal strands of gauge 13 galvanized steel wire (except top and bottom wires, which are of gauge 10), braced by intersecting strands of gauge 13 wire.

It is made with horizontal wires 3 inches apart, below 24 inches; above that distance, 6 inches apart.

The nature of the construction indicates its remarkable strength. It contains much more material than fences more cheaply constructed, consequently is proof against chickens as well as the heaviest stock.

Ample provision made for expansion and contraction. It will not sag, properly erected and stretched, as do all "coil spring" and "corrugated" fences.

For use on the farm, ranch, pasture, plantation, corral, and for general field use it is usually erected on posts of wood, placed from 10 to 16 feet apart, with braced terminal corner and gate posts. We are able to supply our steel posts and braces at a first cost but little advanced over wood, which is more than met by their durability.

The cut shows the different heights of "Stockade" Fence. It is put up in standard rolls, 20 rods each, or in special lengths when ordered.

NOTE.—In the 60-inch height only the horizontal wires are 3 inches apart up to 30 inches, while in all other heights up to 24 inches.

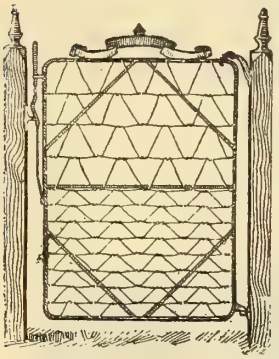
PRICE WITHOUT STEEL POST. Fig. 67.

4 ft. high, per rod, retail, **60c.**, list, **$1.22.** 5 ft. high, per rod, retail, **70c.**, list, **$1.46.**

Steel Posts, each.....**$1.20.** WRITE FOR SPECIAL PRICES.

Having laid in quite a large stock of this fencing before the advance in price, we are prepared to furnish the same in reasonable quantities at a special discount. Nothing equals our Steel Picket Fence for Cemetery Lots.

SINGLE WALK GATES (Enameled Black).



	List Price.	Retail Price.
48 inches high by 3½ feet wide....	**$4.30**	**$3.44**
60 inches high by 3½ feet wide....	**4.65**	**3.72**

Above prices of Gates include the hinges, latch and screws.

DOUBLE DRIVE GATES (Enameled Black).

9 feet wide by 48 inches high, each,	**$9.50**	**$7.60**
9 feet wide by 60 inches high, each,	**9.50**	**7.60**

Above prices include hinges, latch, plate and screws.

THE "HARTMANN" STEEL TREE GUARD.

Is Ornamental, Strong, Durable and Cheap. We can make this Guard for any size of tree. 9 inches diameter, 5 feet 8 inches high, each, **$2.00**

BARBED WIRE.

PRICES ON APPLICATION.

IOWA FOUR POINT BARBED WIRE.

PRICES ON APPLICATION.

PLAIN TWISTED TWO STRAND WIRE.

PRICES ON APPLICATION.

PLAIN RIBBON WIRE.

PRICES ON APPLICATION.

Fig. 67.

PLAIN GALVANIZED WIRE.

PRICES ON APPLICATION.

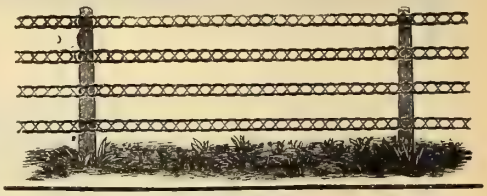
PLAIN ANNEALED WIRE.

PRICES ON APPLICATION.

TRUSS AND CABLE FENCE WIRE.

It is composed of six galvanized spring steel wires of superior quality and is about 1½ in. wide. Its strength is equal to the combined tensile strength of all the wires, and its construction is such as to allow for the expansion and contraction of heat and cold without stretching.

PRICES ON APPLICATION.



WIRE STRETCHER

Price 75 Cents.

The person stretching the wire can nail it to the post without assistance.

The only true principle for a Wire Stretcher.

FARM POST. Fig. 67.

Shows the "Hartmann" Farm Post slotted for our Stockade Fence. It is used for ANY KIND of fence or fence wire, and is slotted to order without extra charge.

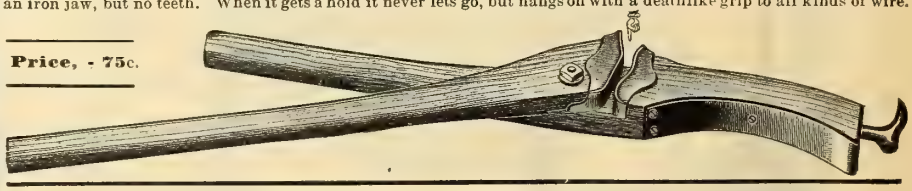
Price, - - - - $1.20

NEVER SLIP STRETCHER.

Has no teeth to cut or injure the wire. If you **cut** or **injure** the galvanizing on a wire it **lets in rust.** Consequently the wire is weakened and breaks at this point. **The Never Slip Stretcher** has an iron jaw, but no teeth. When it gets a hold it never lets go, but hangs on with a deathlike grip to all kinds of wire.

Stretcher at Work.

Price, - 75c.



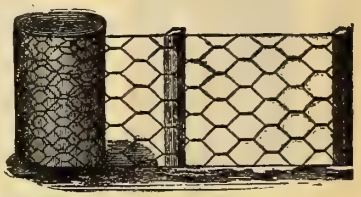
POULTRY NETTING, For Enclosing Poultry Yards.

The Wire we offer is all No. 19 and 20 double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

Prices Two-Inch Mesh:

No. 19.	in. wide.	sq. ft.	per bale.	No. 20.	in. wide.	sq. ft.	per bale.
"	12	150	**$ .75**	"	12	150	**$ .79**
"	18	225	**1.12**	"	18	225	**1.08**
"	24	300	**1.50**	"	24	300	**1.35**
"	36	450	**2.25**	"	36	450	**2.02**
"	48	600	**3.00**	"	48	600	**2.70**
"	60	750	**3.75**	"	60	750	**3.37**
"	72	900	**4.50**	"	72	900	**4.05**

Price, 1 cent per sq. ft. in less than bale lots. Staples for fastening, 10 cents per pound.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

HORTICULTURAL TOOLS.

Figure 1.

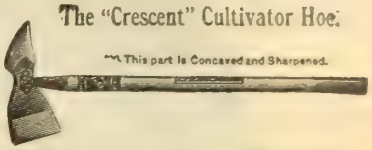


Figure 2.—Two Hoes on One Handle.

SILVER POLISH TROWEL TEMPER.

Figure 2.

The 'VICTOR' Garden Cultivator

Figure 8.

Gibbs' Post Hole Digger.

Figure 9.

Figure 3.

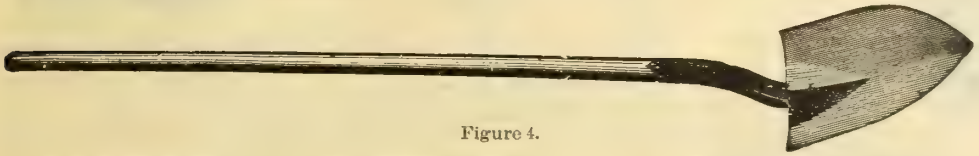


Figure 4.

Figure 7.

Figure 5.

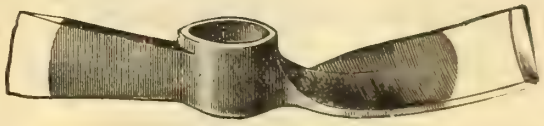


Figure 6.

FIGURE 1.—

Kretsinger Cut-Easy Hoe, Price 55c. each; **$6.00** per dozen. This is the finest hoe made. Cuts easy, sells easy. Try it.

FIGURE 2.— Retail Price—Each.

No. G, 02, Solid Steel Garden Socket Hoe, XXX Handle.....45 cents.
" G, 2, " " " Shank Hoe XXX Handle.....40 "
" 26, Riveted Garden Socket Hoe.....30 "
" 10, Solid Steel Lady's Shank Hoe, XX Handle.....35 "
" P 7, Heavy Handled Planter Shank Hoe, 7-inch blade....45 "
" P. 7½, " " " " " 7½-inch blade...45 "
" P. 8, " " " " " 8-inch blade ...50 "
" 64½, " " Sprouting Hoe, 4½-inch blade, special temper.....60 "
" 75, Heavy Handled Mattock Hoe, special temper .....60 "
" 66, Crescent Cultivator Hoe, 6-inch.....50 "
" 2, Two-point, Solid Steel Weed Hoe.....30 "
" R-1 Sharp Point, Steel Blade Weed Hoe .....25 "
" 84, Brace or Shank Scuffle Hoe, 8-in Steel Blade, with Handle 50 "
Six-inch Corn Stalk Cutter Hoes, Heavy, Solid, Steel Shank, 30-inch Handles.....40 "

We carry also many other sizes and shapes of Hoes.

FIGURE 3.— Retail.

No. 2—D. Handle, Square Point, Griffith Warranted Steel Spade $1.00
" 2— " " " Hill's or Rowland's Steel Spade.. .90
" 2—Long Handle, Square Point, Hill's or Rowland's Steel Spade .90

FIGURE 4.—

" 2—Long Handle, Round Point, Griffith Steel Warranted Shovel, 1.00
" 2— " " " Rowland's " " .90
" 2— " " " Steel Socket Shovels..... .90
" 2— " " " Riveted Shovels..... .80

Scoop Shovels of all sizes always on hand. Wood and Wire Potato Scoops, different styles, in stock.

Retail Price
No. 2—D. Handle, Square Point, Griffith Warranted Steel Shovel.. $1.00
" 2— " Solid Socket, Steel Shovel ..... .90
" 2— " Rowland's ..... .90

Many other sizes and styles always on hand.

FIGURE 5. Retail. List

No. 1—6 to 7 lbs. Best Quality Warranted Steel R. R. Picks. 90c.
" 2—6 to 7 lbs. Best Refined Iron R.R.Picks, Steel Points 70c. $13.00

FIGURE 6.

No. 1—5 lb. Best Quality Warranted Steel Mattocks..... 90c.
" 1—6 lb. " " " " " $1.00
" 2—5 and 6 lb Best Refined Iron Mattocks, Steel Cutters. 75c $16.00
" 1 and 2, Warranted Steel Grub Hoes..... 65c. ....
" 1—3½ lb, Best Refined Iron Grub Hoes (Steel Bit)..... 50c. 11.00
" 2—4 lb. Best Refined Iron Grub Hoes (Steel Bit 60c. 14.50

FIGURE 7.—PICK AND MATTOCK HANDLES. Retail

No. XX Best Quality, Selected, Second Growth Hickory Pick Hdls, 25c
" 1—Good Quality White Hickory Pick Handles ..... 20c.
" 2 Mixed White and Red " " " ..... 15c.

Also Ash Handles, different grades.

FIGURE 8.

THE VICTOR is popular because it is made of best material. The Shanks and Blades are extra good stock and are easily adjusted.
No. 90 Complete, on 5-foot handle, with 3x5 Blades, each **$1.00**

FIGURE 9.—GIBBS' POST HOLE DIGGER.

Digs faster, works easier than any other on the market. All working parts have steel pins. Makes a hole of any desired diameter. First class for tree planting. Price, **$1.75.**

STEEL HOLLOW HANDLE POST SPADE.

Flattened at one end like a spade. The other end is sharpened and can be used as a crowbar. Light, durable, effective, cheap. Price, **$2.00**

SUPERIOR DAIRY GOODS

THE BALTIMORE CHURN.

Patented July 5, 1891.

It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong, and not liable to break. The bails are fastened to the iron ring, where they need to be fastened.

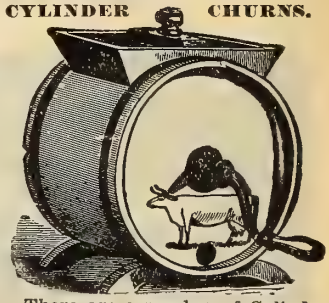
PRICES.

	List price.	Retail price.
No. 0, 5 gal. to churn 2 gals.	$8.00	$5.00
No. 1, 10 gal. to churn 5 gals.	8.50	5.25
No. 2, 15 gal. to churn 7 gals.	9.00	5.50
No. 3, 20 gal. to churn 10 gals.	10.00	6.25
No. 4, 25 gal. to churn 12 gals.	12.00	7.50
No. 5, 35 gal. to churn 17 gals.	16.00	10.00
No. 6, 60 gal. to churn 30 gals.	26.00	16.00
No. 7, 75 gal. to churn 37 gals.	30.00	18.50
No. 8, 90 gal. to churn 45 gals.	35.00	22.00

We furnish Pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.

Write for Special Discount for Cash.

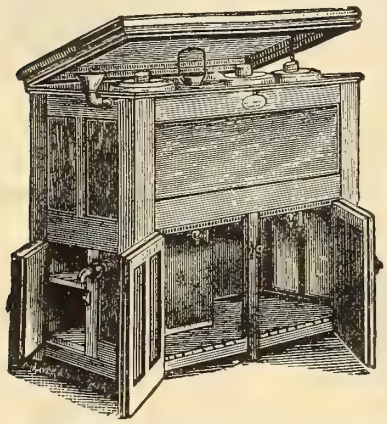
IMPROVED CEDAR CYLINDER CHURNS.



There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected Cedar, free of knots.

	Retail price.	List price.
No. 1, 2¾ gals.	$2.00	$2.50
No. 2, 4 gals.	2.50	3.00
No. 3, 7 gals.	3.00	3.50
No. 4, 10½ gals.	3.50	4.00

STODDARD CREAMERY.



With or without special refrigerator, thorough in construction, simple in operation, accurate in its working.

Family Class. Each can holds 2½ gallons.

No.	No. of Cans.	No. of Cows.	Plain Creamery.	With Special Refrigerator.
2	2	2	$20 00	.....
3	3	3 to 4	26.00	$31.00
4	4	5 to 6	32.00	37.00

Dairy Class. Each can holds 5 gallons.

No.	No. of Cans.	No. of Cows.	Plain Creamery.	With Special Refrigerator.
2	2	5 to 6	$25.00	.....
3	3	7 to 9	31.00	$36.00
4	4	10 to 12	37.00	42.00
5	5	13 to 15	43 00	48.00
6	6	15 to 18	49 00	54.00
8	8	20 to 24	61 00	66.00
10	10	25 to 30	73.00	78.00
12	12	30 to 36	85.00	90.00

Subject to special discount.

No. 2 Family Class and No. 2 Dairy Class are not made with the separate refrigerator compartment unless so ordered.

The above prices do not include partitions, nor more than one water faucet. If partitions or extra water faucet is wanted they will be furnished at $1 each.

Rice's Calf Weaners.

Also prevents cows from sucking themselves.

No. 1, for Calves, **30c.**; by mail, **35c.**
No. 2, for Heifers, **50c.**; by mail, **56c.**
No. 3, for Cows, **75c.**; by mail, **85c.**

SPAIN'S PATENT CHURN.

Prices Furnished on Application.

PERFECTION CALF DEHORNER.

ANYONE CAN OPERATE IT.

This takes the place of acids and is cheaper, is not painful, no more so than extracting a loose tooth, as the young horns are not firmly set in the head.

PRICE LIST.

Perfection Calf Dehorners, including sample box of Perfection Cream and full instructions for operating, etc.:

Net, Plain..... **$3.50**
Net, Nickel Plated..... **5.00**
Perfection Cream, per pound..... **.50**

Discount on five-pound orders.

GUARANTEE.

The Calf Dehorner is fully guaranteed for one year, and if from any defect it breaks or gives out during this time duplicate parts will be furnished free of cost by sending us the part broken.

DESCRIPTION.

The Perfection Calf Dehorner is formed by two curved blades, which cut with a shear cut. The one is stationary, and has a "U"-shape edge, which draws into the flesh and holds the instrument in position, and is adjustable to the other by a wedge which is inserted next to the frame. The other, which does most of the cutting, is hinged in such a position that cuts with a down and then an up cut, which scoops out the horn. It has a lever which moves one blade, and is hinged to the frame. There are two handles, so that it can be held firmly to the head. It will dehorn calves from two weeks to three months old. It is 16½ inches long; weight, 2½ pounds, and opens 1¼ inches. The frame and lever are malleable iron; the blades are of the best steel.

FLOATING GLASS THERMOMETERS.

Price **25** Cents Each.

Eight-inch Dairy Thermometer, stands boiling water. Price, **50** Cents Each.

THE KEYSTONE DEHORNING CLIPPERS.

The practice of dehorning cattle is coming more and more into vogue. It is a mercy to the animals. Prevents goring. Does not crush the horns. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced at any time. It is approved by veterinary surgeons and leading dairymen.

"The horns must go, and they cannot go too soon."

PRICE.

Clipper, with Leader and Rope, extra Blades and Screw, fully warranted..... **$12.00**
Clipper alone..... **$10.00**

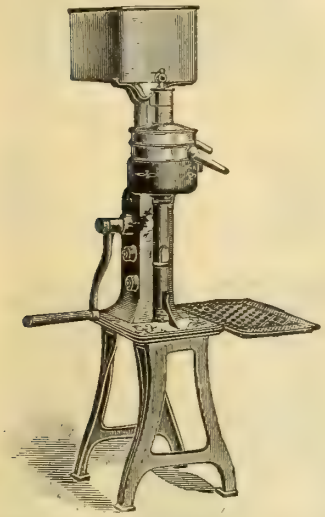
We furnish a cheaper Clipper than the above that is superior to any of the cheap Clippers made, but do not recommend it as broadly as the Keystone, which has no equal. Price..... **$8.00**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

SHARPLES'
CREAM SEPARATORS.

The W H S Hand Separator.

Capacity, 300 Pounds of New Milk Per Hour, Price $75, Is Furnished Complete, as Shown in Cut, Without Legs or Table.



THIS machine is designed to meet the demand for a strictly reliable Hand-power Separator of lowest possible first cost. The materials entering into its construction are the best obtainable. The work is done by the same workmen and subjected to rigid inspection, just as in our higher-priced No. 1 Safety Hand Separators.

In clean skimming and in the quality of cream and butter the W H S SEPARATOR is exactly on a par with the No. 1 Safety.

Every spindle in a Sharples' Separator is gauged to a limit of less than one one-thousandth part of an inch, and the material used in its spindles is the finest crucible steel. The bowl can be put on an anvil and hammered for an hour with a sledge, but will not show the slighest crack.

IT TURNS EASILY.—The bowls are lighter than any others of same capacity, while all the bearings are of hard steel and of exceptional truth and roundness. This, together with the fact that the gearing is of an improved design and very accurately cut, explains the reasons for very easy-running hand machines.

THE BOWL IS SIMPLE AND EASY TO CLEAN —Not over fou or five minutes are required in which to thoroughly wash and cleanse a bowl. First washing must be done with cold water. Every part is open and accessible, and no corners for dirt or milk to lodge in unseen.

Power Machines are described in a little booklet which we will be glad to foward free on application.

This machine is fully equal in every respect to any $100.00 machine made.

PURITY OF PRODUCT.

There is no subject receiving more attention at present among bacteriologists than disease germs existing in milk; especially is this true of the tubercular or consumptive germs. The appalling increase of tuberculosis has caused many of the State Legislatures to take up the subject.

It is a recognized fact that in milk set by the gravity system, all of the bacteria matter or filth, if you wish to term it so, is left in the milk or cream. Any one who has not seen the parts of a machine cleansed after separating, would be amazed at the quantity of dirty, slimy, sickening matter that is washed off the parts Especially may this fact be noted with the SHARPLES' SEPARATORS.

Contained in this filth are the disease germs that one has been pouring into his system, unconsciously bringing disease and death on himself, his family or his friends. Some physicians are advocating separator milk as preferable to mother's milk for young babies

PRICE.

W H S Hand Separator	$ 75.00
No. 1. Safety Hand Separator	100.00
No. 4 Tubular Hand	125.00
Separator Oil, per gallon can	1.00
Separator Oil five gallons	4.00

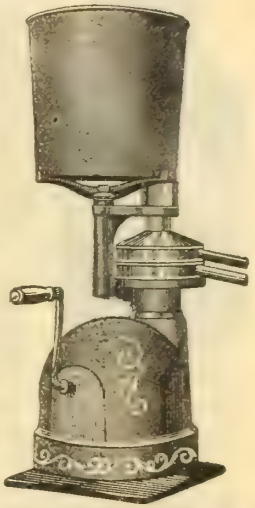
LANTERNS.

This Lantern has the Lift Wire Attachments and Guard and is desirable for hand service. Made in Bright Tin, Brass or Copper. Can be filled, lighted, regulated and extinguished without removing globe. Price, **50** cents.

DASH BOARD LANTERN. Price **90c**

"Buttercup" Hand Separator.

Capacity, 175 Pounds Per Hour.



This new Tubular bowl machine fully meets the demand for a practical and efficient separator of less capacity than our other sizes and at a correspondingly lower price.

The materials and construction employed in this machine are of the best quality, and it can be easily run to its full capacity with one hand by a woman or child.

Points of Superiority of the Buttercup over **any other** small hand Separator are as follows:

Simplicity of construction and consequent durability.

Phosphor-bronze gear instead of common brass as used in some other kinds.

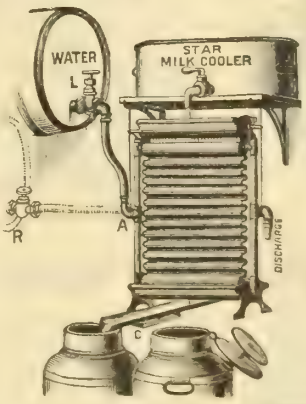
Great reserve capacity (as by speeding up the machine the quantity separated can be increased fully fifty per cent.)

Simple bowl construction, admitting of perfect cleaning in a few moments.

Greater separating capacity in proportion to price than any other machine on the market.

Price..... **$50.00.**

STAR MILK COOLERS.



These are thorough aerators, because the water flowing upwards inside the sheets of copper becomes heated by the warm milk flowing down over the outsides; this brings warm milk and warm water together at the top of the cooler; the milk being gradually cooled as it descends, leaves the Cooler within two degrees of the temperature of water run through it.

In the smallest size every drop of milk is compelled to flow over forty inches of surface, all on outside of machine. Will cool milk as fast as it can be milked: no ice required

These Coolers are constructed of Copper sheet and Brass Castings, heavily tinned, and have surface enough to do the work claimed in hot weather. Will not rust: last a life time.

PRICE.

No. 1. Star Cooler, 60 gallons per hour	$25.00
No. 2. Star Cooler, 90 gallons per hour	27.50

STANDARD Aerator and Cooler.

The Standard will aerate and cool fifty gallons of milk per hour to within two degrees of the temperature of the water used. All of the milk flows down over forty inches of cold surface, and by the time it reaches the bottom it is cold

PRICE.

Plain Cooler, as used with Separator	$5.00
Cooler, including 18-qt. Milk Tank, Milk Flow Regulator Brackets, Screws and Hose	6.00
Barrel Connections, extra	.75
Syphons	6.00

DAIRY GOODS.

"IRON CLAD" MILK CANS.

The Baltimore.

20-qt.	$2.40
30-qt.	2.75
40-qt.	3.00

These cans are made of **Steel and heavily tinned** by the **hand dipping process AFTER they are formed.**

Look for the **Trade Mark "Iron Clad"** stamped in each and every can. No tin-plate cans bear this trade mark.

We also carry a cheaper can, known as the **Competition Iowa** (see below), in order to meet the demand for a lower-priced article. They are well made, but not so heavily tinned. **See price below. Our charge for marking name on can will be 25 cents each.** See below.

Second Quality or Competition Iowa. Price,

20-qt.	$1.65
32-qt.	1.85
40-qt.	1.95

Marking names on all cans, 25 cts. each.

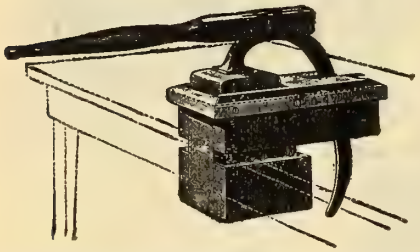
Second Quality or Competition Baltimore.

20-qt.	$2.20

The Iowa.

20-qt.	$1.80
32-qt.	2.00
40-qt.	2.10

Lafayette Butter Printer.

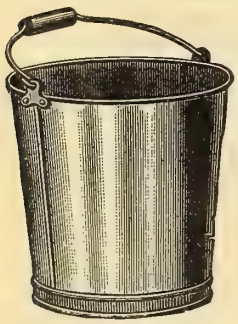


This is also self-gauging. Intended for use in creameries, but more especially for re-printing. Very simple and handy.

Either pound or half pound, with table..... $15.00
Either pound or half pound, without table... $10.00

Parchment Butter Paper.

Is air proof, tasteless and odorless. Does not stick to the butter, and prevents shrinkage. Is purer, neater, cleaner and cheaper than cloth. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pounds, and 10x15 for two pounds. Price, **20**c. per pound; by mail, **35**c.; six pounds, **$1.00.**



Milk Pail.

Made of Best Tin.

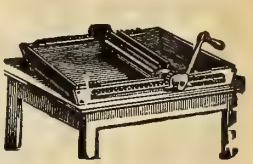
PRICE:

Three Gallons..... 45c. each.
Three and a-half gallons..... 50c. each.

Butter Ladles.
Butter Paddles.

Price..... 10c. each.

REID'S BUTTER WORKER.



Consists of a tray and a roller with paddles, which is turned by a crank and traverses from end to end of tray. It acts on the butter on precisely the same principle as a ladle in the hands of a person, but with perfect uniformity and without injuring the grain.

INSIDE MEASUREMENT.	CAPACITY.	WEIGHT.	LIST PRICE.	RETAIL PRICE.
No. 1—23x36x2½ inches	50 lbs.	45 lbs.	$10.00	$8.00
No. 2—20x36x2½ "	30 "	29 "	8.00	6.40
No. 3—17x27x2½ "	20 "	25 "	7.00	5.60
No. 4—14x23x2½ "	10 "	20 "	6.00	4.80

Three pounds can be worked in any of the above machines, as well as a larger quantity. In buying a machine you should choose a size that will work the largest quantity that you will be likely to want to work at a time.

Larger size, especially designed for mixing, re-working and coloring, or for creamery use.

INSIDE MEASUREMENT.	CAPACITY.	WEIGHT.	PRICE.
No. 0—23x37x3 inches	75 lbs.	60 lbs.	$12.50
No 00—23x56x3 "	112 "	80 "	15.00
No. 000—23x72x3 "	150 "	100 "	18.00

When desired, we can send legs along with any size machine for **$4.00** extra, which can be set up after arrival at destination.

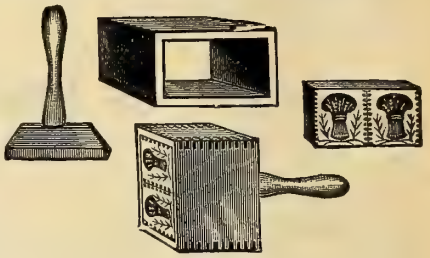
BUTTER BOXES.

Are made of well-seasoned lumber, iron-bound at the edges and capped at the corners. Malleable iron detachable hinges and corner plates combined. The four sides of the trays are surrounded by a non-conducting air space. Malleable iron chest handles are well secured to the sides of the box. These boxes are specially suited for square or oblong prints.

Capacity, 20-lb. Prints	$3.75	Capacity, 120 lb. Prints	$6.00
" 30-lb. "	4.25	" 36-½ lb. "	4.50
" 40-lb. "	4.75	" 64-½ lb. "	5.25
" 56-lb. "	5.00	" 80-½ lb. "	5.50
" 80-lb. "	5.50	" 100 ½ lb. "	6.00
" 96-lb. "	5.75	" 120-½ lb. "	6.50
		" 140-½ lb. "	7.00

BUTTER PRINTS AND MOLDS.

All sizes and styles. Round **15** and **35** cts.; square, **60** cts.; square and extra hand-made, **$1.00, $1.50** and **$1.75** each.

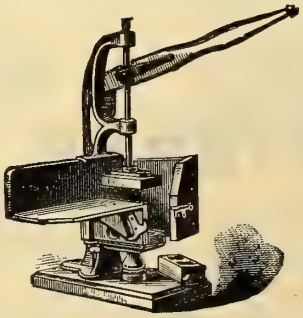


MOORE'S PYRAMIDAL MILK STRAINER.

With Rest..... $1.50
Without Rest.... 1.35

WELLS, RICHARDSON & CO.'S BUTTER COLOR.—Will not color the Buttermilk. Price, **25** and **50** cts. per bottle.

REID'S SELF-GAUGING BUTTER PRINTER.



Prints Butter very neatly and quickly. Weighs into pounds or half pounds, as desired. Does it in one quarter the time it can be done by hand, making prints of uniform weight. Molds are square.

PRICE:

Either pound or half pound, $10.00
Both pound and half pound combined 13.50
Extra for initials and monograms 1.50

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BALTIMORE CEDAR WASHER

ELECTRIC WELDED WIRE HOOPS.

Price, $4.00

THE Baltimore Washer is constructed of the best white cedar, very strong, nicely finished, and is one of the largest round washers on the market. Round Electric Welded Hoops of extra heavy galvanized wire, fitted in a grove around the machine, which prevents them from dropping off The Baltimore is supplied with improved gearing, and all the castings are Japanned. The inside is fully corrugated, similar to a washboard, having no nails or block of any kind. The bottom and sides are corrugated; in others the corrugations run only the length of the staves, thus making crevices for dirt and allowing the steam to escape through the top and water to leak through the bottom. The bottom of the tub is larger than the top, allowing plenty of room for water and clothes. In this machine is placed a square galvanized iron rod fastened firmly to the dolly. This whole arrangement can be lowered or raised by the operator without removing the top, and it will also accommodate itself automatically to quantity of clothes, rendering it impossible to tear the most delicate fabric

Instead of using a square wooden post to work the dolly, (that is, the circular wooden revolving head, that holds the clothes in position), in this machine is placed a square galvanized iron rod fastened firmly to the dolly. This whole arrangement can be lowered or raised by the operator without removing the top, and it will also accommodate itself automatically to the quantity of clothes, rendering it impossible to tear the most delicate fabric, as this offers nothing to which the clothing can catch.

PRICE, $4.00.

—THE—

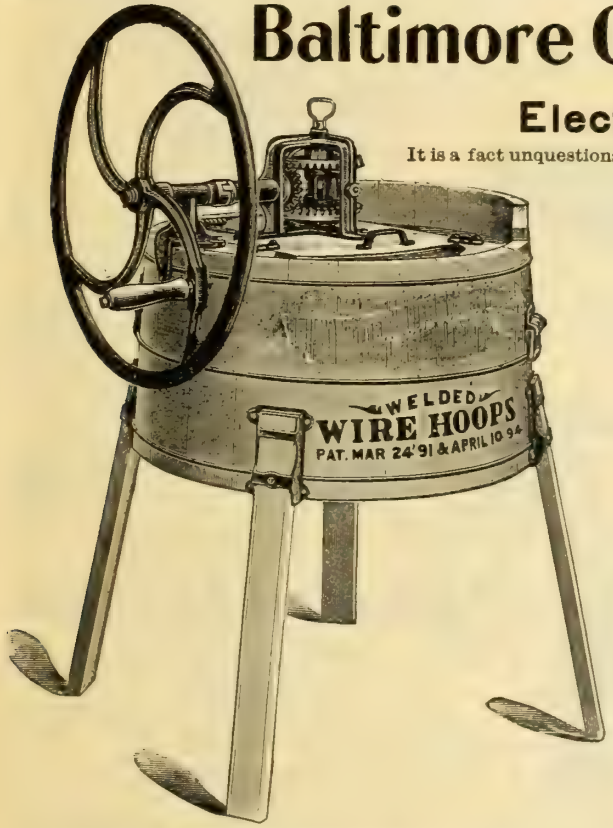
Maryland Washer

To meet the demand for a lower-priced Washer, we offer the Maryland, which is made of pine instead of cedar, but in all other respects is the same as the Baltimore Cedar, shown above.

PRICE, $3.50.

Baltimore Cedar Rotary Washer.

Electric Welded Wire Hoops.



It is a fact unquestionable that white cedar is the only wood known that successfully resists the action of water, as, witness, white cedar shingles and posts oftentimes last for a hundred years. Ninety per cent. of the washtubs used are made of cedar, because they are preferred. That being the case, why should not cedar washing machines also?

The Balance Wheel Does the Work

The Baltimore Cedar Rotary Washer is the lightest running and easiest working machine on the market. No expense has been spared to perfect it. By turning the fly wheel, which weighs eighteen pounds, the pin wheel or dolly inside the tub is made to rotate in opposite directions.

This is the only rotary washer that the dolly rod passes up through lid, thus giving large space through which to take clothes out.

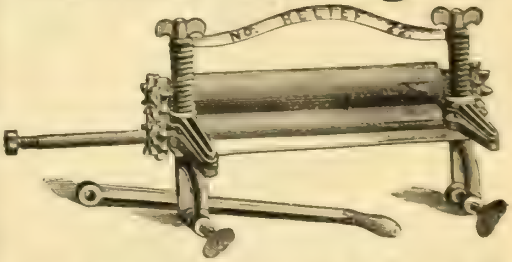
The tubs are made of selected **VIRGINIA WHITE CEDAR,** and are nicely corrugated on sides and bottom. The hoops are made of galvanized wire, and are welded by electricity. These are much stronger than the old-style flat hoops, and **CANNOT DROP OFF,** being sunk in grooves.

The dolly post in this machine works on the same principle as our Baltimore Cedar. See above.

Price,

$7.00

Relief Wringer.



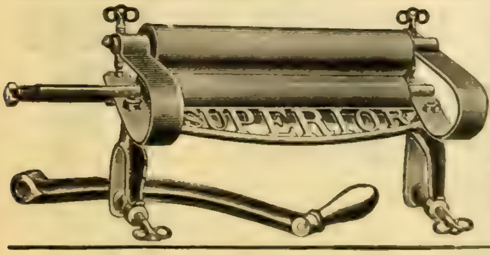
Iron Frame. The Frame is Made Entirely of Wrought and Malleable Iron.

By the use of the thumb nuts and spiral springs in this Wringer, the pressure can be adjusted quickly for either heavy or light work; therefore the rolls are never over strained, and will wear much longer than in the ordinary iron frame Wringer.

With Cog Wheels. Five sizes. Packed four and six in a case.

No. 22.—Small Family. Size of Rolls, 10x1¾ in
Price, **$3.00.** Rolls, each, **$1.25.**

No. 44.—Large Family. Size of Rolls, 12x1¾ in
Price, **$3.75.** Rolls, each, **$1.50.**



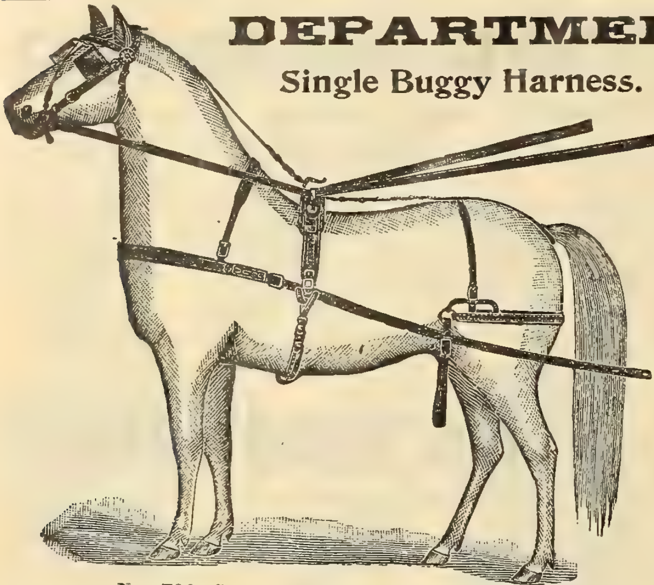
Superior Wringer.

Also carry a stock of the following well-known Iron Frame Wringers:

NAME.	SIZE OF ROLLS.	PRICE.
Superior	10x1¾ in.,	$2.50
Superior	12x1¾ in.,	3.25
Star	10x1¾ in.,	1.50
Extra Rolls		1.00

ALL KINDS OF MACHINERY REPAIRED.

DEPARTMENT OF HARNESS.



Single Buggy Harness.

No. 700—SINGLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1 inch; Saddle, 2½ inches; Breast Collar and Breeching, single leather; Flat Lines, with Web Hand-Parts; X-C Mounting. Price, with Collar and Hames, **$6.00;** with Breast Collar, **$5.50.**

No. 603—SINGLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1⅛ inches; Saddle, 3 inches, with Nickel Hook and Terrets; Breast Collar and Breeching, folded, with Straight Lay; Flat Lines; X-C Mounting; Imitation Hand Stitched. Price, with Collar and Hames, **$9.40;** with Breast Collar, **$8.75.**

No. 4—SINGLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1⅛ inches; Saddle, 3 inches; Breast Collar and Breeching, folded with Straight Lay; Flat Lines; X-C Mounting, with Nickel Hook and Terrets; Imitation Hand Stitched. Price, with Collar and Hames, **$10.50;** with Breast Collar, **$9.50.**

No. 93—SINGLE CARRIAGE HARNESS.

Bridle, 5/8 inch; Traces, 1¼ inches; Saddle, 3½ inches; Breast Collar and Breeching, folded with Straight Lay; Flat Lines; X-C Mounting; Imitation Hand Stitched. Price, with Collar and Hames, **$11.25;** with Breast Collar, **$10.50.**

No. 94—SINGLE CARRIAGE HARNESS.

Bridle, ¾ inch, Chain Front; Traces, 1¼ inches; Saddle, 4 inches; Breast Collar and Breeching, folded with Straight Lay; Flat Lines; Nickel Hook and Terrets, and balance of Mounting X-C; Imitation Hand Stitched. Price, with Collar and Hames, **$11.75;** with Breast Collar, **$11.00.**

No. 354—SINGLE CARRIAGE HARNESS.

Bridle, 5/8 inch Front; Traces, 1⅛ inches; Saddle, 3 inches, Hand Laced, Leather Lined; Breast Collar and Breeching, folded with Wave Lay; Flat Lines; Full Nickel or Imitation Rubber Mounting; Imitation Hand Stitched. Price, with Collar and Hames, **$12.75;** with Breast Collar, **$11.00.**

No. A—HAND-MADE SINGLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1⅛ inches; Saddle, 3 inches, Hand Laced, Leather Lined; Breast Collar and Breeching, folded with Wave Lay; Flat Lines; Full Nickel or Imitation Rubber Mounting; Hand Stitched. Price, with Collar and Hames, **$18.75;** with Breast Collar, **$17.00.**

No. 29—DOUBLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1 inch; Fancy Bound Pads; 1¼ inch Side Pieces and Folded Bellybands; Turnbacks, ¾ inch; Hip Strap, 5/8 inch, with Patent Leather Drops; Flat Lines; Kip Collars; X-C Mounting. Price, **$16.25.**

No. 19—DOUBLE BUGGY HARNESS.

Bridle, 5/8 inch; Imitation Chain Front; Traces, 1⅛ inches; Fancy Bound Pads under same; 1¼ inch Side Pieces and Folded Bellybands; Turnback, ¾ inch; no Hip Strap; Flat Lines; Patent Leather Collars; Full Nickel or Imitation Rubber Mounting; Imitation Hand Stitched. Price, **$20.75.**

No. 35—DOUBLE BUGGY HARNESS.

Bridle, 5/8 inch; Traces, 1⅛ inches; Plain Pads, with Leather Housings under same; 1¼ inch Side Pieces; Folded Bellybands; Turnback, ¾ inch, waved; Flat Lines; Patent Leather Collars; Nickel or Imitation Rubber Mounting; Imitation Hand Stitched; Nicely finished. Price, **$35.00.**

No. 20—EXPRESS HARNESS.

Bridle, ¾ inch; Traces, 1½ inches, to buckle to Hames or with Heel Chains and attached to Hames; Saddle, 4½ inches, with Kersey Lining; Folded Breeching, with Straight Lay; Double Hip Straps; Brass or Nickel Mounting; Imitation Hand Stitched. Price, **$18.50.**

No. 27—EXPRESS HARNESS.

Bridle, ¾ inch; Traces, 1¼ inches; Saddle, 4 inches; Red Wood Hames, with X-C Ball Top; Folding Breeching, with Straight Lay; Double Hip Straps; X-C Mounting. Price, **$13.00.**

No. 18—EXPRESS HARNESS.

Bridle, ¾ inch; Traces, 1¼ inches, with Cock Eyes; Saddle, 4 inches, with Kersey Lining; Red Wood Hames, with Brass Ball Top; Folded Breeching, with Straight Lay; Double Hip Straps; Brass Mounting; Imitation Hand Stitched. Price, **$15.50.**

No. 10½—DOUBLE WAGON HARNESS.

Bridle, ¾ inch; Harness Leather Winkers; Ball Top Hames; 1½ inch Traces, riveted to Hames, with Chain Ends; Folded Pad and Breeching; ¾ inch Double Hip Strap; Kip Face Collars; Flat Lines. Price, **$20.00.**

No. 9—DOUBLE WAGON HARNESS.

Bridle, ¾ inch; Patent Leather Winkers; Ball Top Hames; 1½ inch Traces, riveted to Hames with Chain Ends; Folded Pads and Breeching; ⅞ inch Double Hip Strap; Kip Collars; Flat Lines; Imitation Hand Stitched. Price, **$22.00.**

No. 17—HEAVY DOUBLE WAGON HARNESS.

Bridle, ¾ inch; Patent Leather Winkers; Box Loop Checks; Brass Ball Top Hames; 2 inch Traces, riveted to Hames, with Chain Ends, Heavy Pads and Breeching; 1 inch Double Hip Strap; Kip Collars; Flat Lines; Imitation Hand Stitched. Price, **$32.50.**

No. A—DUMP CART HARNESS.

Bridle, ⅞ inch; Lines, ⅞ inch; Breeching, 3 inches; No. 5 Saddle, Leather Covered; No. 62 Iron Bound Hames; ⅞ inch Hame Straps; Tug Chains; Kip Team Collar. Price, **$10.25.**

No. 8—DUMP CART HARNESS.

Bridle, No. 218, with Winker Stays; Reins, 1 inch Black; Hames, No. 61, Virginia Hook, with Straps; Collar, all Kip Team; Saddle, No. 8, Doubled and Stitched Top, Full Pad, Leather Girth; Breeching, No. 5, 3 inch Double Body, 1½ inches Turnback, 1¼ inch Double Hip Straps. Price, **$15.00.**

Prices on Cheap Cart Harness on Application.

HAMES.

	Per Pair.
London Patent Hames	$1.00
London Tie Hames	.75
Taylor Root Pat. Hames	.60
Taylor Root Tie Hames	.50
Sawed Pat. Hames	.50
Sawed Tie Hames	.30

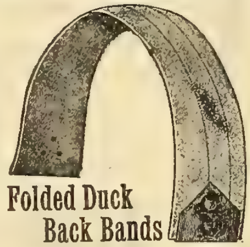
Special Prices to both Wholesale and Retail Dealers.

Hame Strings.

Black, 5/8	12c. each.	$1.25 per dozen.
Black, ¾	15c. each.	1.50 per dozen.
R. Hide, 5/8	10c. each.	1.00 per dozen.

Buggy, Coach and Wagon Whips.

Made of the best material. Bone, Rawhide and Wood Handles.



Folded Duck Back Bands

42, 44, 46 and 48 inches.
Price............50c.

Padded Duck Back Bands

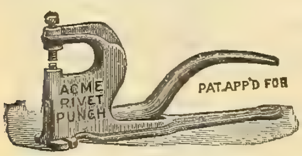
Padded Entire Length.

PATENT HOOKS.

Can be used with either chain or rope traces. Our goods are full length; shorter lengths can be sold for less money.

42 AND 44 INCHES,

40c.



Save Money on the Farm by Using the

Rivet Punch.

THE "FARMER'S FACTOTUM."

FOR MENDING HARNESS, BELTING, ETC.

Adapted for No. 1 Tubular Rivets, which are sold by the Hardware Trade. A sample package of assorted rivets furnished with each machine. This little machine will save more time and money for the farmers and liverymen than anything on the market:

Price—Tom Thumb Rivet Punch........ 40c.
Uncle Sam Rivet Punch........ 50c.
Tubular Rivets, box of 100, assorted........ 15c.

"RAPID" HARNESS MENDERS.

Patented February 2, 1886; March 27, 1888.

The finest way of applying a buckle known. Any part of a harness can be mended in a very short time—no riveting, no sewing to rot away, and no special tools required.

Price........ 25c. per gross; by mail, 35c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

STABLE REQUISITES

CURRY COMBS AND BRUSHES.

No. 183.

All steel, close back, 8 bars, plain knocker, lacquered, enameled handle, brass ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozens. Price 2‹ c. each.

8 Bars, Hand Riveted.

PATENT APPLIED FOR.

No. 480.

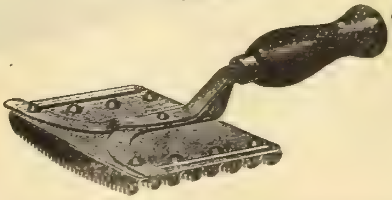
No. 480—Columbia—Lacquered.......25c. each. Packed one dozen in box. Cases are made for 24 dozens.

EIGHT BARS, EXTRA HEAVY.

No. 490—All steel shank runs through handle and is riveted, 25c. each.
Packed one dozen in box. Cases are made for 24 dozens.

All Steel, Close Back.

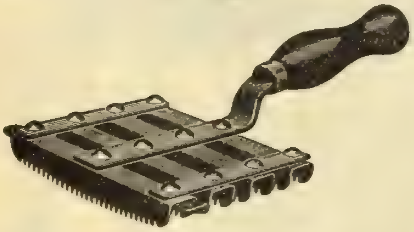
No. 800.



All steel, close back, lacquered, extra size, oval face, curved knockers, braced shank extending through handle and riveted, enameled handle, brass ferrule, 8 bars.
Packed 1 doz. in box. Cases made for 24 dozens. Price 25c. each.

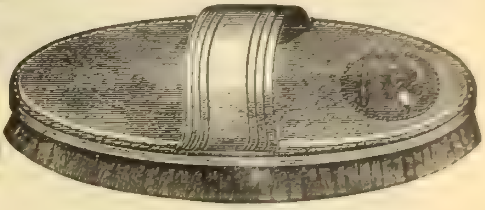
All Steel, Open Back.

No. 083.



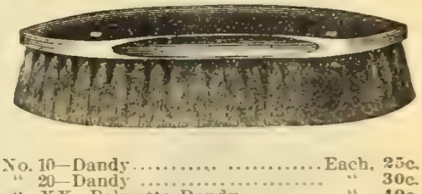
All steel, open back, 8 bars, plain knocker, japanned, carmine handle, steel ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozens. Each 15c.

Leather Back Brushes.



No. 35	—Patent Leather Back	Each,	40c.
" 123	—Yellow Leather Back	"	50c.
" 400	—Yellow Leather Back	"	60c.
" 999	—Russet Leather Back	"	90c.
" 80	—All Bristle, Russet Leather, Flexible Back, Army	"	$1.25
" 445	—All Bristle, Russet Leather, Flexible Back, Army		1.50
" 100	—London, warranted all white Bristle.....	"	2.00

Dandy Brushes.



No. 10	—Dandy	Each,	25c.
" 20	—Dandy	"	30c.
" XX	—Palmetto Dandy.......	"	40c.
" 940	—Dandy.......	"	45c.
" 7000	—Dandy, made of selected fine root.....	"	60c.

All of above are packed six in a box.

No. 707—Grenelle Brushes, extra fine, each, 60c.

No. 699.

Adjustable Web Halters.

Continuous piece solid color No. 1 extra quality web, folded through metal corners Adjustable buckle. Leather chin piece with buckle. Rope lead, leather latch, snap.
Price ....40c.

Rope Halters.

No. 688—One-half inch XX Sisal Rope, Price.. ....20c.
No 690—One-half inch Manilla Rope, Price............. .. .. . 40c.

All of our Rope Goods are of best quality, standard size and full length.
Order by number for any kind of Halter.

No. 238.

No. 238 Cyclone Leather Halters.

One and a quarter inch with 1¼ inch Leather Lead, price $1.35.
No. 242—1¼ inch with 1¼ inch Leather Lead, price $1.25.

Fancy Striped Halters. No. 696.

Corners bound with leather riveted to ring loops. Leather chin piece Rope lead, leather latch, snap. Price, 30 cents.

Fancy Striped Extra Heavy No. 1 Halters.

No. 698.

Corners bound with leather, riveted to ring loops. Leather chin piece with buckle. Rope lead, leather latch and snap. Price, 35c.

Rope Cattle Ties.

No. 652—½ inch Manilla Rope, eight feet long. Price, 30c.
No. 655—½ inch XX Sisal Rope, eight feet long. Price, 20c.

Rope Horse Ties.

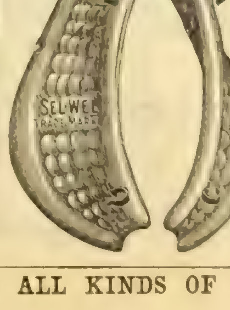
No. 664—½ inch Manilla, ten feet long, (two snaps). Price, 35c.
No. 667—½ inch XX Sisal ten feet long, (two snaps). Price, 28c.

No. 1 Web Halters. No. 694.

Continuous piece, solid color both sides, No. 1 Web through metal corners. Leather chin piece. Rope lead, leather latch, with snap.
Price..2 c.

Horse Collars.

No. 190—Draft Collars, split leather back and rim, Duck face, price 90c.
No. 1101—Team do., heavy, price, $1.25
No. 136—Kip Team, sheep faced, price, $1.75.
No. 155—Scotch, kip, back and rim tick face, price $2.20.
No. 760—Heavy kip team, sheep faced, price, $2.00.



"Sel-Wel"

(TRADE MARK)

Sweat Pads.

Made only in one combination of drill, brown-white. With one kind stuffing, composite, with four hooks. The fourth hook can be removed, if not wanted, but it will not be taken off. Five rows quilting. With hooks always set in the same position.
Each pad will be so branded that a dealer can tell at once to what size collar it is best adapted.

To illustrate—Sixteen for either 15 or 16 inch collar. Eighteen for either 17 or 18 inch collar, etc.
A 10, 10 in. wide, 35c. A 12, 12 in. wide, 40c.

Sweat Pads.

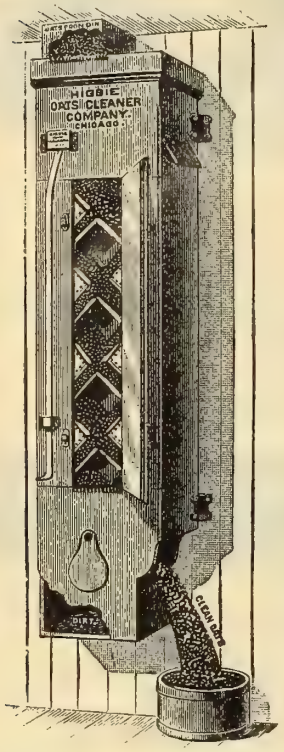
"Kurine," and "Felt Less" Brands.

"Kurine"—9 in., each 30c. Brown and white drill.
"Kurine"—11 in., each ... Brown and white d...
"Felt Less"—10 in., each 50c. Old gold drill.
This line of "Kurine" brand presents ... tractive features ... any similar line ... dium-priced sweat collars on the market.

ALL KINDS OF MACHINERY REPAIRED.

STABLE REQUISITES.

Higbie Self-Acting Oats Cleaners.



THIS Cleaner will remove **one bushel** of **dust,** dirt, stones sticks, etc., from every twenty-five to thirty bushels of clean oats; or, in other words, **each horse chokes down seven to ten bushels of dust, dirt, etc., per year,** unless all oats are drawn through a Higbie Self-Acting Oats Cleaner.

Extending from top to bottom of the Cleaner are eleven **downwardly inclined screens,** operating in pairs. Below each pair of screes is located a A **shaped table;** thus the oats fall alternating from the **screens to the tables,** the object of the A shaped tables being to **divide** the oats and give them a very rapid impetus before dashing to the next set of screens. **The operating valve** is located in the top of the Cleaner. Directly below this is **a large coarse grate** which permits the oats to pass through, but throws off everything larger, **such as stones, sticks, glass** or any coarse **trash** that may be in the oats. Below this grate are the **zig-zag screens** and the tables extending through the entire Cleaner to the discharge spout below. The **dirt box** is in the base of the Cleaner and may be emptied through a hand hole in the bottom. Price.....**$18.00**

In use by Express Companies, Fire Departments, Baltimore Transfer Co., Armour, Swift, etc.

Weaver's Patented Rivetless Steel Stock Trough.

THE only Steel Trough constructed without the use of rivets. Will not crack or burst on account of freezing. This trough is made of No. 12 gauge steel, curved in semi-circular form, with ends of cast iron fitted in each end of steel, and held in place by steel bands instead of rivets. These bands are shrunk around the end edges of steel, binding it firmly to the flange on the end, thereby making a perfectly water-tight joint.

No. 3, 18 in. wide at top, 9 in. deep, per foot.....**$1.00**
No. 4, 20 " " 10 in. " " **1.10**

Furnished in lengths from 4 to 20 feet. Shorter lengths cost same as 4-foot lengths.

Cast Iron Poultry Troughs.

Nos. 1, 2 and 3.

Same shape as Hog Troughs. This is an indispensable article for parties raising poultry. Is readily cleaned, and no leaking.

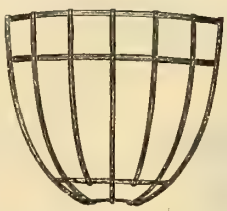
No. 0—8 inches long, 3¼ inches wide at top, 1¼ inches deep.....**20c.**
No. 1—20 inches long, 4 inches wide at top, 1½ inches deep.....**40c.**
No. 2—23 inches long, 7 inches wide at top, 3 inches deep.....**50c.**

Cast Iron Hog Troughs.

No person raising hogs can afford to do without these troughs. No danger in winter, when frozen full of ice, for them to burst. The price is within the reach of all. Twelve inches wide at top, 2 inches wide at bottom and 6 inches deep. Made in lengths from 2 feet up to 8 feet, every 6 inches. Weight, per foot, 13 lbs.

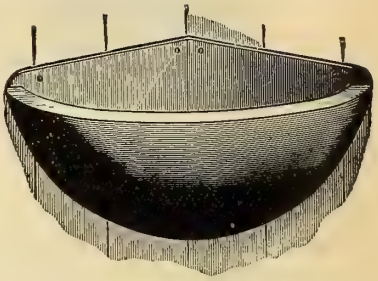
Price.....**40c.** per foot.

Wrought Hay Racks.



Far superior to cast iron racks, as frequently used. Price.....**$1.50**

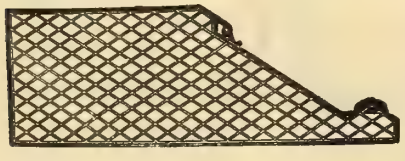
Corner Mangers.



No. 188—16 inches long, 16 inches wide, 10 inches deep. Weight, 30 lbs. Price.....**$1.25**

No. 187—15 inches long, 15 inches wide, 8 inches deep. Weight, 22 lbs. Price.....**$1.00**

Cast Iron Stall Guards



6 feet long, 25 inches high. Weight, 74 lbs. Price, each.....**$4.00**

Special Prices in Quantities.

Perfection Kettle Range.

The **Perfection Kettle Range** is made of the best material throughout, its body being made of steel ⅛ inch in thickness, and **the top a series of rings** which can be removed or replaced to suit almost any sized kettle. **It is supplied with a fire door** large enough to admit a good sized chunk of wood. It is also supplied with **grates and ash pit,** and soft coal can be used. Has handles for moving, takes up small space while in use, is fitted with feet and **has steel bottom,** so that it can be used on a wooden floor with perfect safety.

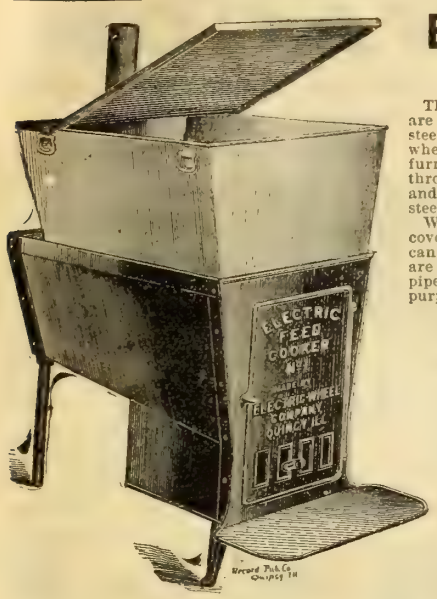
Price.....**$12.00**

OX YOKES COMPLETE.

SIZE.				LIST PRICE.
No. 2—7½ in. on neck,	by 20 in.	between bows,		**$6.50**
" 3—8 "	" 21 "	" "	"	**7.50**
" 4—8½ "	" 22 "	" "	"	**8.00**
" 5—9 "	" 23 "	" "	"	**9.00**

SIZE.	LIST PRICE.
No. 6—9½ in. on neck, by 24 in. between bows,	**$9.50**
" 7—10 " " 25 " " "	**10.00**
Ox Bows, per pair, regular.....	**1.20**
" " heavy.....	**1.40**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Balto. Feed Cooker,

STYLE No. 1.

The furnace, door frame, hearth and grates of this cooker are made of the best cast iron linings, and sides of sheet steel plates. The steel linings prevent burning or warping where the furnace is concerned, and the air between the furnace and outside sheet passes into the fire box and out through the smoke stack; this increases heating capacity and hence saves fuel. The boiler is made of galvanized steel, and will not corrode nor rust.

We can also furnish a tight fitting galvanized steel cover with every boiler. A faucet for drawing off liquid can be attached to the boiler, for $1.00 extra. All furnaces are furnished with one length (24 inches) of 6 inch stove pipe, extra lengths for 25 cents. The steel cover is for the purpose of converting the furnace into a stove by taking off the boiler. The hearth in this furnace extends back under the grates, so as to form an ash receiver. The furnace can be set up in any building or on the ground without danger of fire.

Style No. 1,	25 gal.,	21x25x13, wt. 115 lbs.	$12.00
" 2,	40 "	21x35x13, " 130 "	14.00
" 3,	50 "	21x37x13, " 142 "	16.00
" 4,	65 "	21x47x13, " 160 "	18.00
" 5,	100 "	21x61x18, " 240 "	22.00
Plate for Style No. 1			2.50
" " " 2			2.90
" " " 3			3.35

Electric Corrugated Boiler and Feed Cooker.

The kettles are made of finest grade [illegible]. They are [illegible] heavy CORRUGATED STEEL JACKET, which allows FREE EXPANSION and CONTRACTION of the metal so that it will not buckle or bre[illegible] when exposed to high degree of heat. A HEAVY STEEL BAND extends around the jacket at both TOP and BOTTOM making it an EXCEEDINGLY DURABLE FURNACE.

This boiler is designed to set on the ground or brick foundation. A CAST IRON FLUE is fastsned to the inside of the Jacket which retards the draft and causes the heat to be retained, and applied to the whole exterior surface of the kettle, before passing out, making it economical in the consumption of fuel Cast iron fixtures for hard or soft coal furnished when required.

MADE IN THREE SIZES.

No.	Size.	Actual Cap'y.	Shp'g Wt.	List
4	1 bbl.	33 gals.	175 lbs.	$14.00
5	1½ "	45 "	200 "	15.50
6	2 "	53 "	225 "	18.00
Cast Iron Fire Pot for Coal.....				4.50

Special Discount for Cash.

THE BANNER ROOT CUTTER.

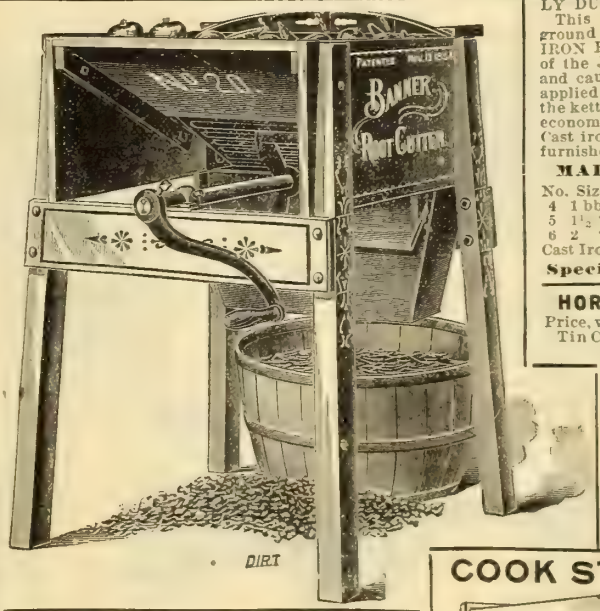
Built in three sizes for both Hand and Power.

Simple in construction. Easy to operate. Has a self-feeder. Separates dirt from cut feed. Cuts with a clean cut. Does not crush, grind or tear the feed.

The No. 20—For Hand Use.
Has a capacity of 30 to 50 bushels per hour.
Retail Price.....$9.00

We will have on market Crank Cutter, built with balance wheel, same to be of large capacity on which we can make very low prices.

The No. 16—Small Power Cutter.
With Fly Wheel and Band Wheel.
Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Capacity by power, 2 to 3 bushels per minute.
Our Retail Price.....$13.00



REGULAR 3 KNIFE KRAUT CUTTER, with Sliding Box, 8x26 inches. Price, **$1.25.**

HORSE RADISH GRATER.

Price, with Perforated Tin Cylinder.....$ 7.00
Price with Steel Pin..... 8.00
Machine for Power..... 14.00

Thompson's Junior Banner Cutter, No. 7.

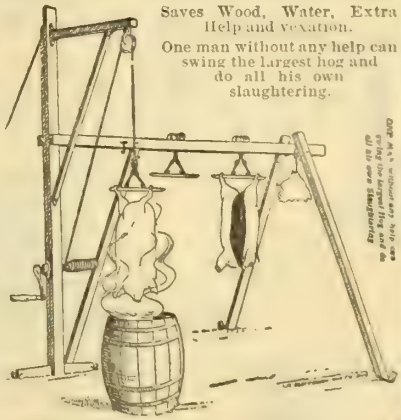
Suitable for a Flock of 50 to 1000 fowls.

This cutter is adapted especially for poultry men and farmers or for suburban residents keeping a couple of cows. Cuts roots and vegetables into fine chicken feed. Capacity, one bushel in about five minutes. Price, **$5.00.**

OHIO BUTCHERING DERRICK.

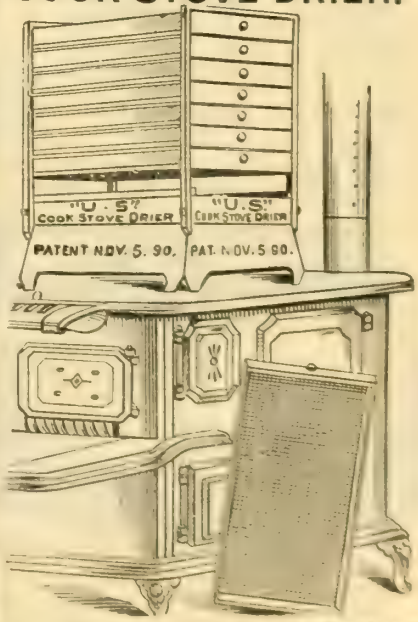
Saves Wood, Water, Extra Help and vexation.

One man without any help can swing the largest hog and do all his own slaughtering.



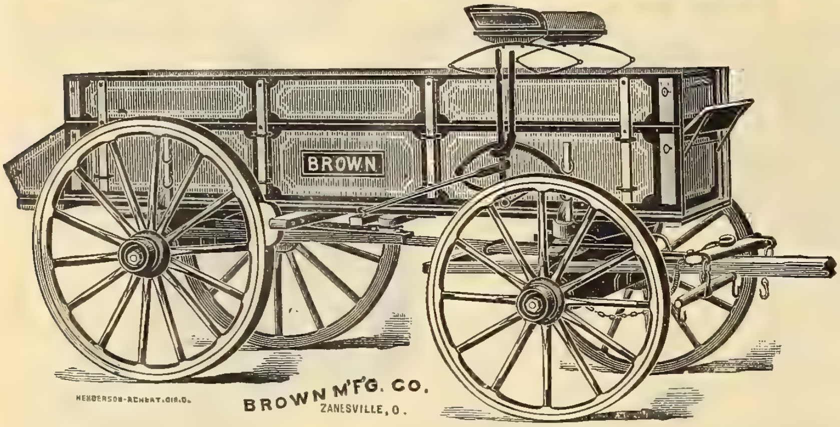
DESCRIPTION—From the pulley to the ground 8 ft.; length of derrick, 9 ft. 6 in.; track, 6 ft. 9 in. from the ground; braces, 6 ft. 6 in. wide at the bottom. Each Derrick furnished with four gammon sticks, four pulleys, four head hooks, twenty feet manila rope, malleable iron stayrings, a windlass of easy sweep. Thoroughly well braced with proper cast iron supports to the crane. Weight, 150 lbs. Price, **$10.50.**

COOK STOVE DRIER.



It is a Little Gold Mine.—No labor you can perform for cash returns pays as well [illegible] converting wasting fruits into evaporated stock. These products are among the [illegible] food products. Evaporated Peaches, Cherries and Raspberries, 20 to 25 cents per [illegible] berries, etc., 10 to 15 cents; all saleable to or may be exchanged with your [illegible] **Recall the Waste of Fresh Fruits** on the farm or town lot **for Seasons Past.** [illegible] $5.

THE BROWN WAGON.



Skein and Axle Different from all Others. Oil Boiled Felloes, Stay-Chains, with Spring to Control Wheels.

COIL SPRINGS are applied to Tongue—eases draft on team's neck when chains are forced to control tongue or hold back. They supply the place of the vibrating of Neck Yoke—yield to pull of chain or branch chain, saving team from jerking of tongue. Branch chains are added to each tongue, practically destroying side jerking and whipping motion—acts same as Neck Yoke.

Extension Shoe Skein is one of the greatest improvements, as it protects the axle as well as the skein, allowing the axle to be made of less material. The shoe of the skein supports the axle where it has the greatest load to bear, and is superior to the steel skein, as it allows a greater quantity of the axle to enter the shoe of the skein.

The skein is also chilled on its face, and will wear longer than a steel skein. The steel skein has no temper in it, and is as soft as iron, as it is required to be welded in its manufacture.

Number, Size and Capacity of Wagons.

No. 000—Complete with gear brake, top box and seat. Capacity, 1800 to 2000 lbs. Price.......... **$62.50**

No. 00—Is a 2¾x8½ in. skein; 7½x8½ in. hub; 1½x½ in. tire; body 9 feet by 12 to 14 inches deep inside, with gear brake, top box and seat. Capacity, 2000 to 2500 lbs. Price.......... **$65.00**

No. 1—Is a 3x9 in. skein; 8x9 in. hub; 1½x⅝ in. tire; body 9 to 9½ feet long, 13 to 15 inches deep inside, with gear brake, top box and seat. Capacity, 3000 lbs. Price.......... **$67.50**

For Wagon Gears only, deduct $10.00.

No. 2—Is a 3¼x10 in. skein; 8½x10 in. hub: tire 1⅝x⅝ or ¾ in.; body 10 feet long by 15 to 16 inches deep inside, with gear brake, top box and seat. Capacity, 3500 lbs. Price.......... **$70.00**

No. 3—Is a 3½x11 in. skein; 9x11 in. hub; 1¾x⅝ or ¾ in. tire; body 9½ or 10 feet long and 15 to 18 inches deep inside, with gear brake, top box and seat. Capacity, 4500 lbs. Price.......... **$72.50**

One-Horse Wagon—Is a 2½x8 in. skein; 7x8 in. hub; tire 1⅜x 7-16 in. Capacity, 1800 lbs. Has gear brake, top box and seat. Price.......... **$50.00**

In addition to above line of wagons, the company are building for us a special line of Steel Chain Linch Pin Gears, with 4-inch tires. Prices, etc., as follows:

No. 3—3½x11 skeins; capacity 5000 lbs. Price.......... **$80.00**
" **4**—3¾x12 " " 6000 to 7000 lbs. Price.......... **85.00**
" **5**—4x12 " " 7000 to 8000 lbs. " **90.00**

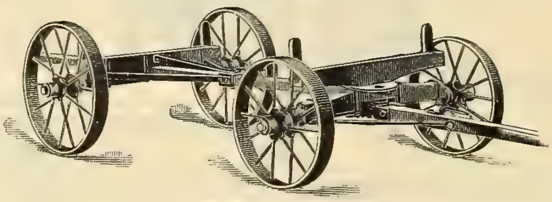
Depth of body given on all wagons above does not include top box, which is 6, 8, 10 or 12 inches deep. Tubular Axle Wagon furnished on application.

When 2½x⅝ in. tire is wanted, add to above	**$4.00**
" 2½x¾ " " " "	**5.00**
" 3x⅝ " " " "	**6.00**
" 3x¾ " " " "	**7.00**
" 4x⅝ " " " "	**12.00**
" 4x¾ " " " "	**13.00**
Tire ⅞ in. thick will cost extra per wagon	**1.50**
" 1 " " " " " above the cost of ⅞ in. tire	**2.00**

EXTRAS ON TWO-HORSE BROWN WAGON.

Spring seat, each	$2.50	Plain lower bed only	**$9.00**
Top box complete, per set	2.00	Gear brake complete, with bed lock irons	**4.00**
Bed lock irons	.50		

"HANDY" STEEL FARM WAGON.



Wheels 28x4 and 34x4, with removeable boxes and staggard spokes.

Price	**$35.00**
Brake	**3.50**
Neck Yokes	**.75**
Doubletrees	**2.00**

Capacity. 5000 pounds

Bolsters are made of good white oak, with cast sockets bolted on side, so stakes are moveable.

We make reach of white oak, 4x2½ inches by 12 feet long, adjustable for the ordinary wagon box, or hay ladders 16 feet long.

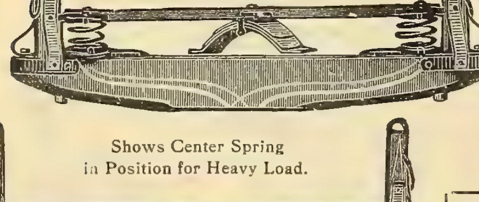
Axles solid steel 1¾ inches, fastened on the bottom of a groved white oak piece 3x5 inches, with steel clips. On the end of oak piece we bolt cast collar or sand band; improved Lynch pin.

We make the Standard Gauge 5 feet from centre to centre of tires; 3 feet 6 inches between standards. Narrow Gauge 4 feet 6 inches from center to center of tires; 3 feet 2 inches between standards

State if Standard or Narrow Gauge Wanted.

Doubletree, Neck Yoke and Brake are extra.

NORTH PATENT ADJUSTABLE BOLSTER SPRINGS



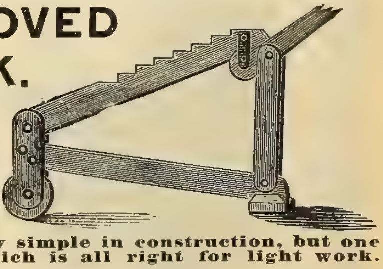
Shows Center Spring in Position for Light Load.

Shows Center Spring in Position for Heavy Load.

Wagon will last longer, will carry load in much better condition, particularly fruit or produce.

To carry 1000 lbs,	**$4.00**	To carry 4000 lbs,	**$10.00**
" 1500 "	**6.00**	" 5000 "	**11.00**
" 2000 "	**7.00**	" 6000 "	**12.00**
" 3000 "	**8.00**		

MILLER'S IMPROVED WAGON JACK.

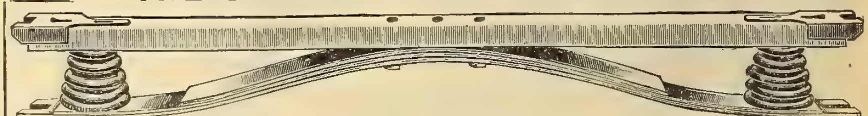


It is Made in Three Sizes.

No. 1—Adapted for buggies or light work. Capacity, 2,000 lbs.......... **$1.25**
No. 2—For heavy wagons, transfer wagons, trucks, etc. Capacity from 3000 to 5000 lbs.......... **$1.50**
No. 3.......... **2.25**

We also have a cheap Jack, very simple in construction, but one which is easily handled, and which is all right for light work. Price, 50 cents.

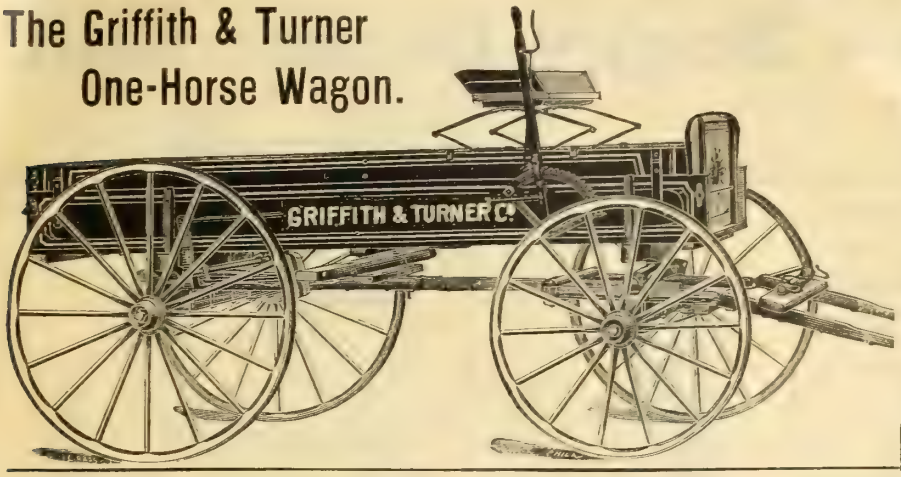
THE COMMON SENSE BOLSTER SPRING.



	Per set.		Per set
To carry 1000 lbs.	**$5.00**	To carry 4000 lbs.	**$8.00**
" 1500 "	**5.50**	" 5000 "	**9.00**
" 2000 "	**6.00**	" 6000 "	**10.00**
" 2500 "	**6.50**	" 8000 "	**11.00**
" 3000 "	**7.00**	" 10000 "	**12.00**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

The Griffith & Turner One-Horse Wagon.



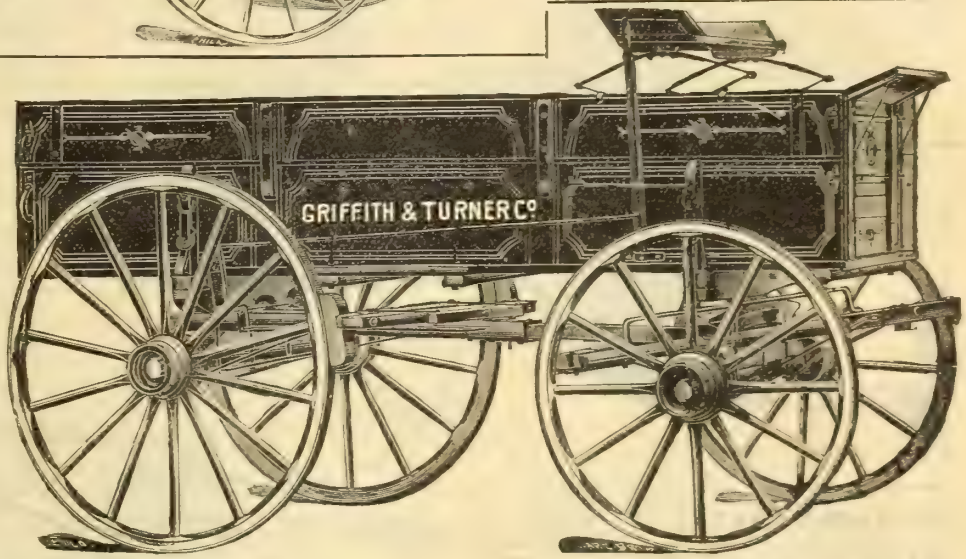
THE GRIFFITH & TURNER ONE-HORSE WAGON has adjustable reach front hounds, patent wheels, double box spring seat, and gear or body brake. It is substantially made, and especially adapted for general use. It has an excellent finish, and gives satisfaction.

PRICES G. & T. ONE-HORSE WAGON.

G. & T. One-Horse Wagon, without brake	$30.00
G. & T. One-Horse Wagon with gear brake	33.00
G. & T. One-Horse Wagon, gear only, without brake	27.00
G. & T. One-Horse Wagon, gear only, with brake	30.00
Tongue	5.00
Bodies	7.50

No. 20 ONE-HORSE WAGON, capacity 1500 to 1800 pounds, $5 each higher than G. & T. Wagon above.

THE GRIFFITH & TURNER Solid Steel and Tubular Steel Axle Wagons.



These Wagons are all heavily ironed and braced, and for use in rough and hilly country they are specially adapted, being exceptionally strong. The wheels are dipped in **Boiling Oil,** and the round-edge tire is used for the protection of felloes and paint. They are one of the lightest-running Wagons made. There is an increasing demand in sandy countries for steel-axle Wagons, and our trade in this style has grown immensely.

The prices include Whiffletrees, Wrench, Stay Chains, Tongue Chains' Box, Top Box, Spring Seat and Gear.

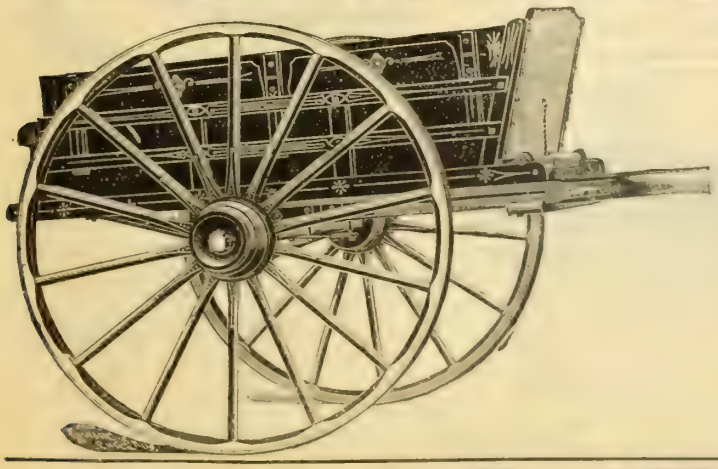
All Wagons will be arranged with Shafts for one horse instead of Tongue when ordered at same price.

Note prices on brakes.

Nos.	Size of Steel Axle.	Size of Tub'l'r Axles.	Size of Tires.	Height of Wheels. Front.	Height of Wheels. Rear.	Dimensions of Body. Length.	Width.	Depth.	Wght.	Capacity.	Wagon complete no brakes.	Wagon complete with brakes.	Gears only with brakes.	Gears only no brakes.
21..	1⅛	1⅞x 8	1⅜x7-16	3 ft. 6 in.	4 ft. 0 in.	9 ft. 6 in.	3 ft. 6 in.	12 6 in.	.....	2,000 to 2,500	$47.50	$51.00	$45.00	$41.50
22..	1⅝	2⅛x 8	2 x½	3 ft. 6 in.	4 ft. 2 in.	10 ft. 6 in.	3 ft. 6 in.	12 6 in.	900	2,500 to 3,000	58.50	63.00	57.00	52.50
23..	1¾	2⅜x 9	2 x⅝	3 ft. 6 in.	4 ft. 2 in.	10 ft. 6 in.	3 ft. 6 in.	12 8 in.	1,000	3,000 to 3,500	60.50	64.50	58.50	53.50
24..	2	2⅝x 1	2 x¾	3 ft. 6 in.	4 ft. 2 in.	10 ft. 6 in.	3 ft. 6 in.	14 8 in.	1,200	4,000 to 4,500	65.50	70.50	63.00	58.50
25..	2¼	2⅞x11	3 x¾	3 ft. 6 in.	4 ft. 2 in.	Running Gear.			1,200	6,000	78.50	84.50	78.50	74.00
26..	2½	3⅛x12	3 x¾	3 ft. 6 in.	4 ft. 2 in.	Running Gear.			.....	8,000	.....	.....	84.50	80.00

For Tires wider than above on Nos. 22 and 23, add **$4.50** per inch; on Nos. 24, 25 and 26, add **$5.50** per inch. Rear Brake, extra, **$4.50.**

FARM AND CONTRACTOR'S CART.



These Carts are very strong, heavily ironed, nicely painted, striped and varnished. They are specially adapted for use by Farmers and Contractors. Incorporated in these Carts are all of the best features of the old-style farm cart, even to the trap stick, which we retain, considering it far ahead of any of the patent devices. In consequence of these points we have now unquestionably the best article of its kind ever introduced. We have sold these carts more or less extensively throughout Maryland, Virginia, Pennsylvania, New York, New Jersey, North Carolina and other parts of the South and judging from our largely increasing trade, we are prepared to say that it is **Just the Cart Needed.** It has been our sole aim to have nothing but the best

Size of Axle.	Size of Tires.	Diam. of Wheels.	Price
1½ inches	2 inches	4 ft. 10 in.	$32.50
1½ inches	3 inches	4 ft. 10 in.	35.00
2 inches	2 inches	4 ft. 10 in.	37.50
2 inches	3 inches	4 ft. 10 in.	40.00

ALL KINDS OF MACHINERY REPAIRED.

Carriage and Buggy Department.

No. 39.

FARMERS' FAVORITE.

Sarven Wheels, One-Inch Axle. Semi-Elliptic Springs, Painting Dark Wine.

PRICE.

List.....$22.00
Retail.....13.50

No. 15 BODY CART.

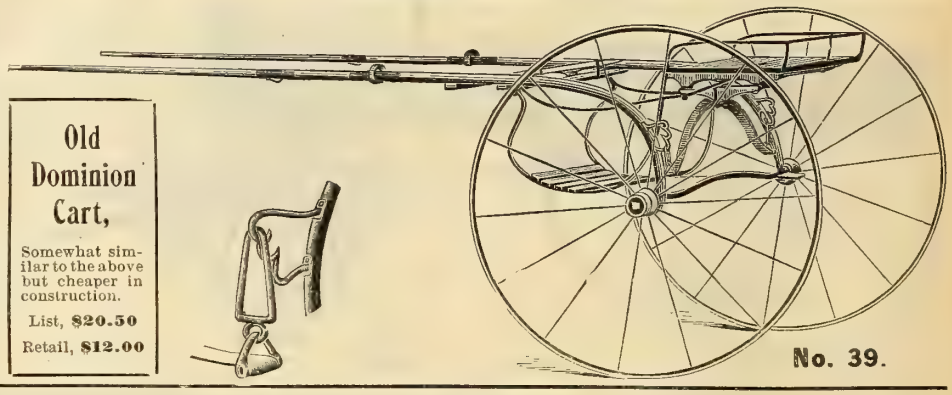
WHEELS, Sarven patent; four feet high, one inch tread. Gear—Double collar steel axle, one inch; coached; combination of large and small coil springs; adjusting irons for raising and lowering body to suit load. Body and Seat—Body, 27 inches wide; seat, 30 inches wide, with box underneath for holding parcels; size of parcel box, 24x14x5½ inches. Trimmings—Imitation of leather; cushion and back. Painting—Body, black; gear, Brewster green. List, **$32.50.** Retail, **$20.00.**

Old Dominion Cart,

Somewhat similar to the above but cheaper in construction.

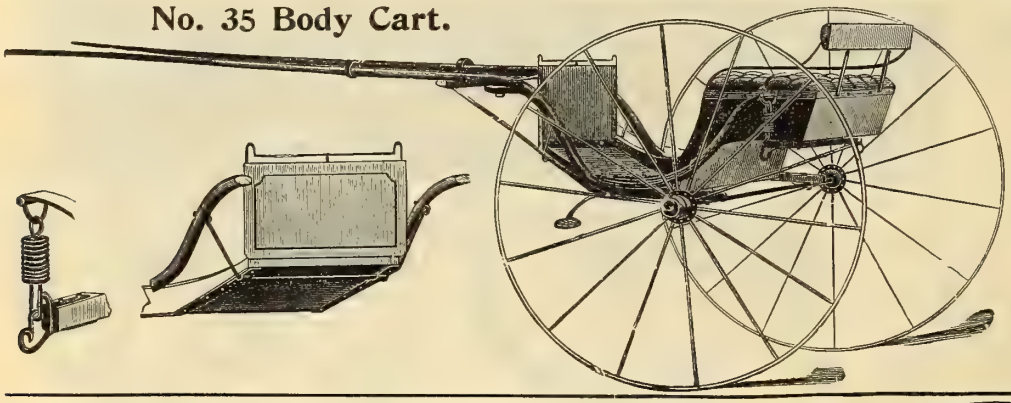
List, **$20.50**

Retail, **$12.00**



No. 39.

No. 35 Body Cart.



In this, as seen in cut, the step is in front, rendering it a very easy matter for ladies to mount, and the springs are so arranged that the only motion felt is that of a buggy. No horse motion whatever.

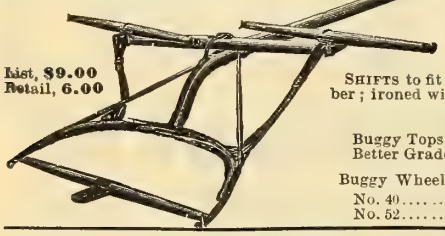
Wheels, Sarven patent, four feet high; 1 inch tread. Gear, double collar, steel axle, 1 inch, coached; four-leaf springs, combined with small coil springs; adjusting irons for raising or lowering body. Body, 27 inches wide; seat, 30 inches wide, with box underneath, 24x11x6 inches. Trimmings, imitation leather; spring cushion. Painting, body black; gear, Brewster green, nicely striped.

List, **$37.00.** Retail, **$22.00.**

No. 0 BODY CART. } ⅞ Wheels, 4 ft. high; 1 in. Axle, double collar, Steel Spring swings in Shackle; best Hickory Shafts. List, **$35.00.** Retail, **$21.00.**

"Model" Ironed Carriage Pole.

Is well ironed with wrought iron tees; double or single hammer strap; heavy drop-forged stay irons. In every way suitable for medium grade work. Prices are for Pole complete, which include neck yoke, double and single trees and check straps.



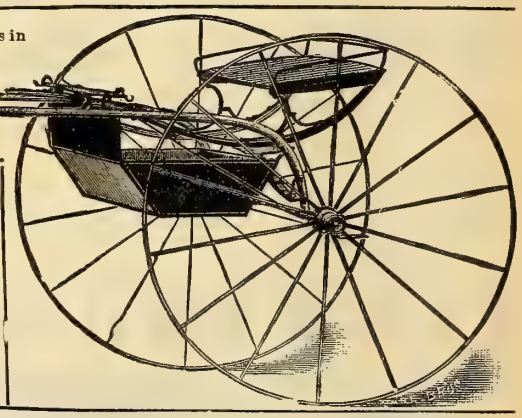
List, **$9.00**
Retail, **6.00**

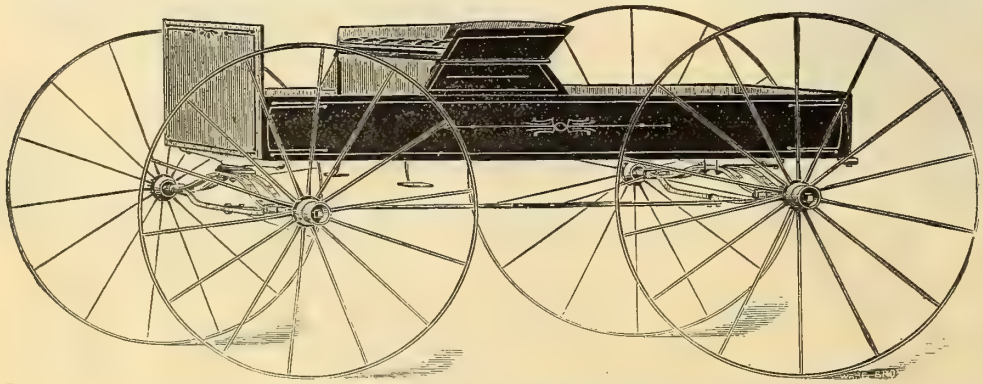
No. 1 Patent Shifting or Adjustable Pole.

SHIFTS to fit any carriage or sleigh. Best selected timber; ironed with Norway iron. List, $16.00. Retail, $9.00.

	List.	Retail.
Buggy Tops, Rubber	$18.00	$10.00
Better Grade Rubber	23.00	12.50

Buggy Wheels, Finished—	Per Set.	Per Set.
No. 40	List, $20.00	Retail, $12.00
No. 52	" 24.00	" 15.00





DUPLEX SPRING WAGON.

Axle, 1⅛ in.; 1⅛ in. steel tire; body 7 ft. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 1000 lbs. **$45.00.**

Axle, 1 in.; 1 in. steel tire; body 6 ft. 6 in. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 600 to 800 lbs. One seat with cushion. **$42.50.**

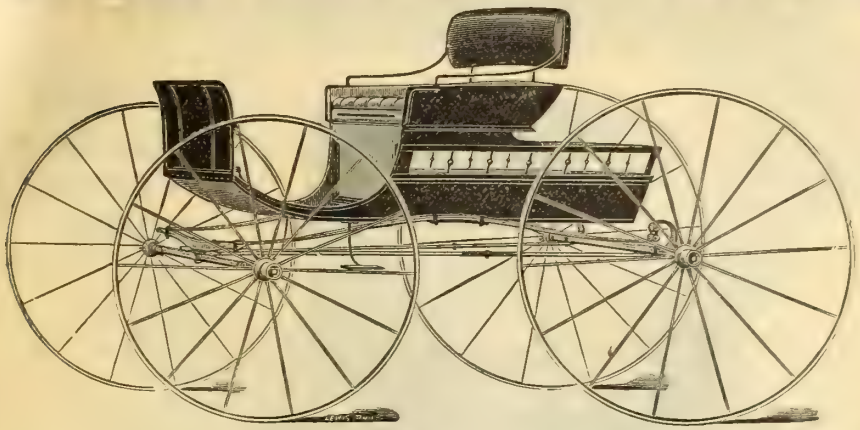
We furnish Tops, Brakes, Two Seats and Lazy Backs with above wagons when ordered. Tops extra, **$15.** Brakes, **$3.**

All wheels dipped in boiling oil.

We are offering Three Spring Wagons on same lines as above, 1⅛ in. Axle **$47.50**; 1 in. Axle, **$45.00.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CARRIAGE AND BUGGY DEPARTMENT. (Continued.)



No. 00 ROAD WAGON.

15-16 inch Double Collar, Steel Axles, Warner or Sarven Wheels, ¾ or ⅞ Tread. Upholstered in Corduroy or Drill, Gear Dark Green or Imitation Carmine, Body Black Oil-Tempered Springs.

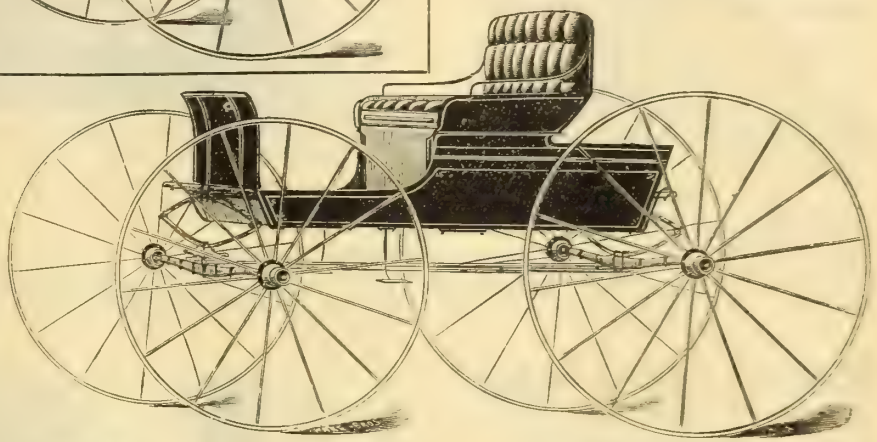
List, $50.00. Retail, $30.00.

No. 00½ ROAD WAGON.

This is the same as 00 (see cut) except it has a Canvas Top.

List, $65.00. Retail, $37.50.

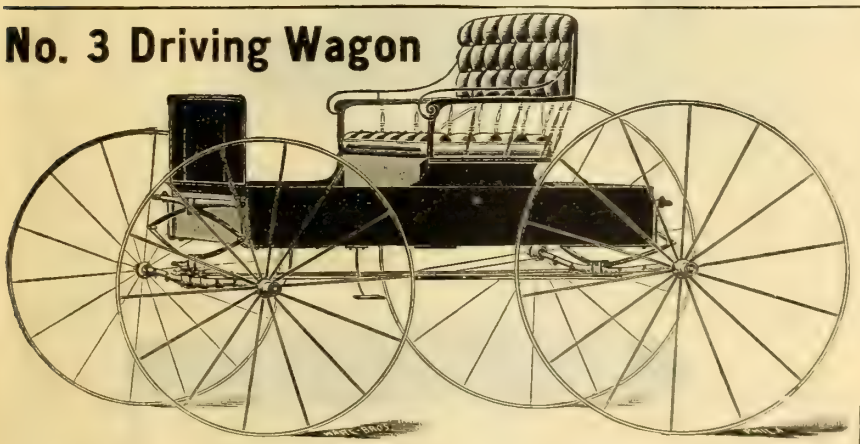
No. 4 Road Wagon.



WHEELS.—Sarven patent; ⅞ tread, with round-edge steel tire. Gear—Double-Collar Steel Axle; 15-16 inch; fantail and swedged; three-leaf 34-inch Spring; axles bedded and reaches ironed. Body—Size, 49x24 inches on bottom; round corners and concave seat risers; steel body loops. Seat—Size, 16x27 inches, with detachable panel back. Trimmings—Leather dash; carpet in bottom; cushion and back green cloth or imitation of leather. Painting—Body, black; gear Brewster green; both neatly striped.

List, $55.00. Retail, $32.50.

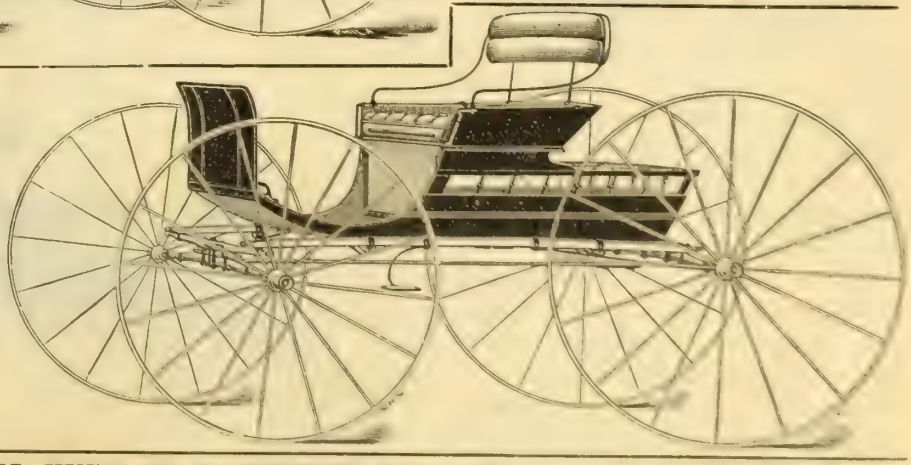
No. 3 Driving Wagon



WHEELS.—Extra selected, hickory; Sarven patent or compressed band; ⅞ inch round-edge steel tire, bolted at every spoke. Gear—Double-Collar Steel Axle, 15-16 inch, fantail and swedged; 36-inch four-leaf graded steel springs; gear woods best black hickory, with axle beds cemented to axles; wrought derby fifth wheel, with taper clip king bolt; bent reaches mortised in head-block and ironed full length. Body—Ash sills and poplar panels, with round corners, swelled sides, convex panels, with oval edge irons and concave seat risers; size, 24x54 inches; full-length steel body loops; wrought steps, with rubber pads; bottom boards put in from the bottom, giving additional leg room. Seat—Size of bottom, 17x28 inches; polished beveled edged back. Trimmings—Leather dash; full-length tapestry carpet; cushion and back, whipcord or leather; leather extra. Painting—Body, black; gear, Brewster green or carmine; neatly striped.

List, $82.00. Retail, $50.00.

No. 35 Road Wagon



This Wagon is made of Warner Wheels exclusively, unless specially ordered otherwise; ⅞ inch tread, hung on either Brewster, King or Coil Springs. A nicely finished and an exceedingly fine job for the money.

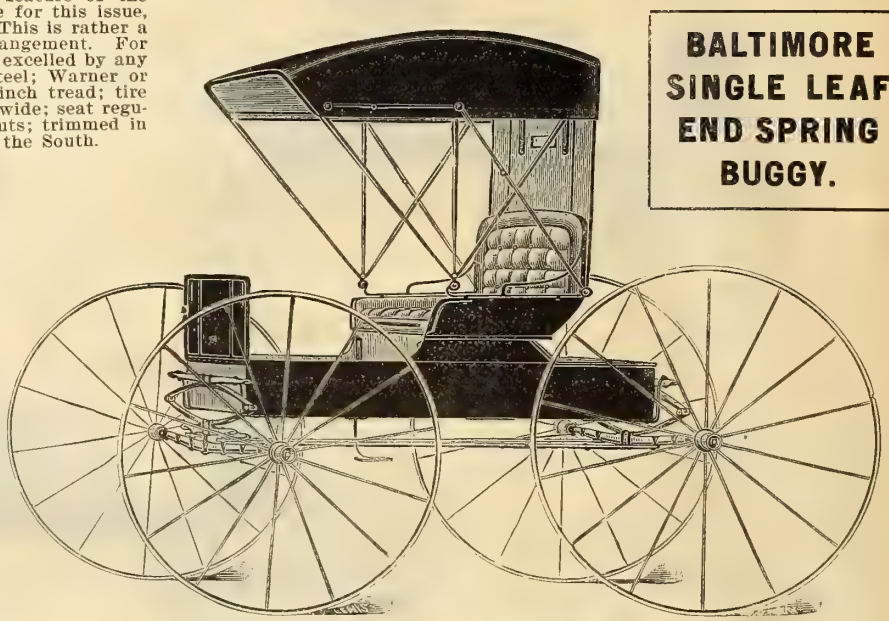
List, $60.00. Retail, $35.00.

CARRIAGE AND BUGGY DEPARTMENT
CONTINUED.

The cut does not show the single-leaf feature of the spring, as it could not be obtained in time for this issue, but in every other respect it is the same. This is rather a new departure, but a most excellent arrangement. For ease of riding and general comfort it is not excelled by any other style. Axles ⅞ inch double collar steel; Warner or shell band; wheels No. 1 quality; ¾ or ⅞ inch tread; tire bolted between every spoke; body 22 inches wide; seat regular width; nickel hub bands; nickel prop nuts; trimmed in leather same as No. 52. A great favorite in the South.

PRICE—List.	Retail.
Rubber Top..... $95.00	$52.50
Leather Quarter..... 100.00	55.00
Leather Top and Rubber Sides..... 110.00	60.00
Full Leather Top..... 120.00	70.00

BALTIMORE SINGLE LEAF END SPRING BUGGY.



No. 40 Side Bar Buggy, Piano Body

This is Similar in Construction to No. 52, but Not as Fine Grade.

Wheels, No. 1 grade, 3 feet 9 inches and three feet 5 inches high; Warner or shell band, ⅞x3-16 steel tire bolted between every spoke, double perch; well ironed; 15-16 inch double collar, steel axle; springs all clipped on axle; Brewster springs; body black; gear green; black or natural wood finish; can hang on other springs on sufficient notice.

PRICE—List.	Retail.
Rubber Top..... $86.00	$48.00
Leather Quarter..... 90.00	50.00
Leather Top and Rubber Sides..... 100.00	55.00
Full Leather Top..... 105.00	57.50

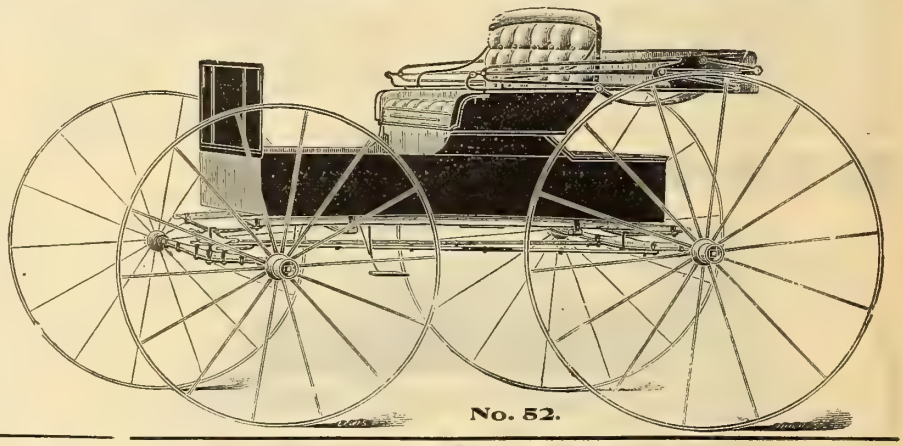
☞With End Spring, Same Prices.

No. 52.

Brewster Spring Buggy

Seven-eighths Double Collar Swaged Steel Axles; shell band or Warner wheels, No. 1 quality; ¾ or ⅞ inch tread; steel tire bolted between every spoke; body 22 inches wide; seat regular width, upholstered in green or blue broadcloth or leather; cushions on back are plaited; seat lined; a neatly trimmed job; 28-ounce rubber top; nickel fasteners on stays; body hung low. It is nicely finished and style is exceedingly good.

PRICE. List.	Retail.
Rubber Top.....$105.00	$57.50
Leather Quarter..... 110.00	60.00
Leather Top and Rubber Sides..... 120.00	65.00
Full Leather Top..... 130.00	75.00
Nickel Rail..... 1.10	.65
Rim Sleeve Bands..... 1.50	.85
Nickel Cap..... 1.50	.85



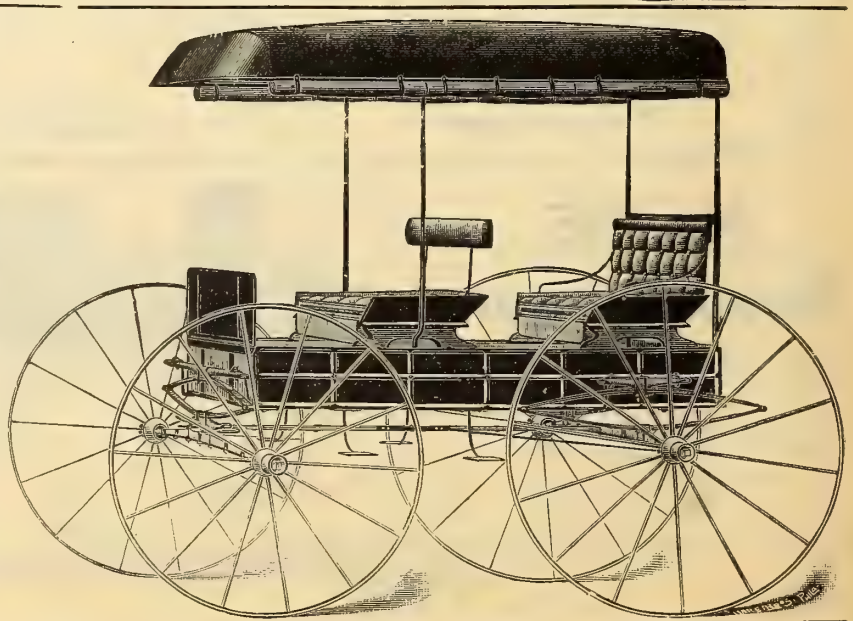
No. 52.

No. 4 Dayton.

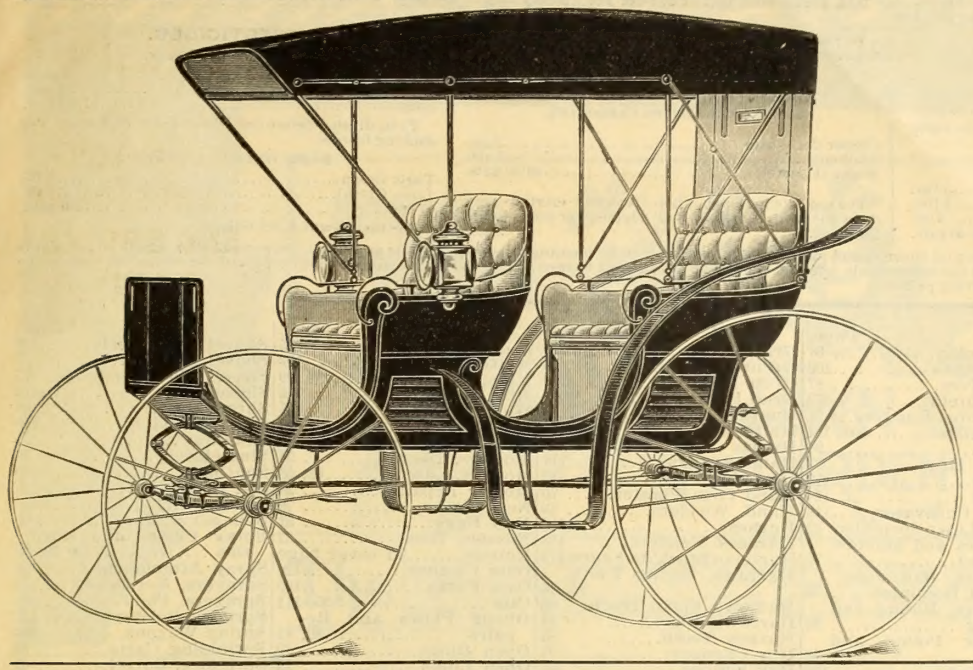
Length of body 5 feet 10 inches, width 2 feet 10½ inches, frame and seats best white ash; panels best No. 1 poplar; wheels 3 feet 9 inches and 3 feet 5 inches high; 1 1-16 inch spoke; Warner or shell band; 1x¼ inch steel tire; 1 1-16 inch steel axle, front spring 1⅜ inch, 4 ply; two back springs 1¼ inch, 4 ply, oil tempered; gear best white hickory; cushions trimmed either leather or cloth; curtains 24 ounces, green back, gum; finished natural wood or painted as desired; hung on Brewster springs.

PRICE—List..... $110.00
Retail..... 60.00

Can also furnish in duplex or side bar at same price.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



EXTENSION TOP SURREY.

We are prepared to furnish a Full Line of SURRIES, both in Extension and Canopy Top, at Lowest Prices.

FINE GRADE OF GOODS.

Write for Prices.

HOW AND WHEN TO SPRAY.

Plant.	First Application.	Second Application.	Third Application.	Fourth Application.	Fifth Application.
Apple.—(Canker worm, codling moth, bud moth, scab.)	Spray before buds start, using copper sulphate solution.	After the blossoms have formed, but before they open, Bordeaux and Paris green.*	Within a week after blossoms have fallen, Bordeaux and Paris Green.	10 to 14 days later, repeat.	10 to 14 days later, Bordeaux or weak copper sulphate.
Bean.—(Anthracnose.)	When blossoms appear, spray with Bordeaux.	10 days later, repeat.	10 to 14 days later, weak copper sulphate solution.	Repeat last, if necessary.	
Cabbage.—(Worms, aphis.)	When worms first appear, kerosene emulsion, or Paris green.	If worms or aphides are present, repeat if plants are not heading, using emulsion for aphis.	If aphides persist or if worms reappear, use kerosene emulsion, if plants are not heading.	After heads form, use saltpetre for worms, a teaspoonful to a gallon of water; emulsion for aphides	Repeat if necessary.
Carnation.—(Rust and other fungous diseases.)	When planted out, dip in Bordeaux.	7 to 12 days later, spray plants with Bordeaux.	Repeat at intervals of a week or ten days until blossoms open.	While in bloom, spray every week with the dilute copper sulphate solution.	
Cherry.—(Rot, aphis, curculio and slug.)	Before buds start, use copper sulphate solution. For aphis, kerosene emulsion.	When fruit has set, Bordeaux and Paris green.*	10 to 12 days later, if signs of rot appear, repeat.	10 to 12 days later copper sulphate solution, WEAK.	Repeat if necessary.
Currant.—(Worms, mildew.)	As soon as worms are seen, Paris green.	If they reappear, repeat, adding Bordeaux for mildew.†	If worms still trouble, pyrethrum or hellebore.†		
Gooseberry.—(Mildew, worms.)	As leaves open, Bordeaux and Paris green.	In 10 to 14 days, repeat with both.	10 to 14 days later, sulphide of potassium on English varieties.	10 to 14 days later, repeat if necessary.	If mildew persists after crop is gathered Bordeaux.
Grape.—(Flee-beetle, fungous diseases.)	Before buds burst, copper sulphate solution and Paris green.	When first leaves are half grown, Bordeaux and Paris green.	As soon as fruit has set, repeat.*	10 to 14 days later, Bordeaux mixture, if disease is present.	If necessary, very weak copper sulphate solution.
Nursery Stock.—(Fungous diseases.)	When buds burst, Bordeaux.	Repeat at intervals.	of 10 to 14 days.		
Peach, Apricot.—(Leaf-curl, curculio, mildew and rot.)	Before buds swell, copper sulphate solution.	As soon as fruit has set, Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 12 days later, repeat.	If rot persists, use very weak copper sulphate solution every 5 to 7 days.†
Pear.—(Leaf-blight, scab, psylla and codling moth.)	Before buds start, copper sulphate solution.	Within a week after blossoms fall, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 16 days later, Bordeaux.	10 to 16 days later, Bordeaux.†
Plum.—(Black knot, rot and all fungous diseases, curculio.)	As buds start, copper sulphate solution. Cut out knot and burn.	When fruit has set, Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.	Weak copper sulphate solution, as is necessary.
Potato.—(Beetles, scab, blight.)	For scab soak seed in corrosive sublimate solution (2 oz. in 16 gallons of water for 90 minutes.)	When beetles or their larvæ appear, Paris green (1 pound to 100 pounds of plaster.)	Repeat whenever necessary.	When blight of the leaves is accompanied by rot of the tubers Bordeaux.	Repeat if necessary.
Quince.—(Leaf and fruit spot, rot.)	Before buds start, copper sulphate solution.	When fruit has set Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.	Bordeaux or copper sulphate sol., as is necessary.
Raspberry, Blackberry.—(Anthracnose, rust.)	Cut out badly diseased canes. Spray with copper sulphate solution before growth starts	When new canes are one foot high spray with Bordeaux mixture.	10 to 14 days later, weak copper sulphate solution.	When crop is gathered remove old canes thin new ones and spray with Bordeaux mixture.	
Rose.—(Mildew, black spot, red spider, aphis.)	Mildew: Keep heating pipes painted with equal parts lime and sulphur mixed with water to a paste	Black spot: Spray plants once a week with weak copper sulphate.	Red spider: Kerosene emulsion to under side of foliage.	Aphis: Kerosene emulsion.	
Strawberry.—(Rust.)	Just before blossoms open, Bordeaux and Paris green.	When fruit has set, Bordeaux* or WEAK copper sulphate solution.	As soon as berries are harvested, Bordeaux (if to be kept longer)		
Tomato.—(Rot and blight, worms.)	When first fruits have set, Bordeaux.	If disease appears, repeat* or use weak copper sulphate solution.	If necessary, spray with weak copper sulphate solution.		
Violet.—(Blight, red spider.)	When blight is first seen, weak copper sulphate. Kerosene emulsion for insects.	Repeat at intervals of 10 to 20 days, as necessary for blight.	NOTE.—Use kerosene emulsion, very weak.		

EXPLANATION.—Whenever an Asterisk (*) is used it cautions against spraying with poisons while the plants are in blossom. A Dagger (†) indicates that there is danger of making an application within three weeks of the time the fruit is to be used as food.

VALUABLE INFORMATION.

This issue of our Catalogue was so exceedingly crowded that we could not get the portion of page 127, devoted to HOW AND WHEN TO SPRAY, in its proper place, preceding the spray goods, pages 58, 59 and 60. It is valuable information, and should be read carefully by all persons interested in spraying. Below find directions for compounding the various insecticides and fungicides.

FUNGICIDES.

COPPER SULPHATE SOLUTION.

Copper Sulphate.....1 lb.
Water.....25 gals.

For use ONLY BEFORE THE BUDS OPEN. It is ready for use as soon as dissolved in water.

BORDEAUX MIXTURE.

Copper Sulphate.....4 lbs.
Quick Lime.....4 lbs.
Paris Green (for leaf-eating insects).....4 oz.
Water (1 barrel).....40-50 gals.

To prevent potato rot, 6 lbs. of copper sulphate is used instead of 4.

AMMONIACAL COPPER CARBONATE.

Copper Carbonate.....5 oz.
Ammonia.....2 qts.
Water (1 barrel).....40-50 gals.

For use late in season when Bordeaux mixture may stain the fruit. It is also best adapted for green-house spraying.

INSECTICIDES.

KEROSENE EMULSION.

Kerosene (coal oil).....2 gals.
Rain Water.....1 gal.
Soap.....½ lb.

To be diluted before use with 9 parts of water. For sucking insects.

PARIS GREEN AND WATER.

Paris Green.....1 lb.
Lime (fresh).....1 lb.
Water.....200 gals.

For insects which eat foliage.

SPECIAL NOTES.—For BLACK KNOT on cherries and plums, cut out and destroy by burning the diseased parts as soon as discovered. For APHIS on all plants use kerosene emulsion. If RED RUST appears the entire stools affected should be cut out and burned. YOUNG PLANTS should be sprayed with Bordeaux mixture at the time of the first and third applications to bearing plants.

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The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some lands being deficient in Potash, Phosphoric Acid or some other chemical ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

ANIMAL BONE PHOSPHATE.

Made principally from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass—it contains all of the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price, $28.00 per ton.

AMMONIATED ALKALINE PLANT FOOD.

Our old stand-by for summer crops is used largely on Potatoes, Corn, Tobacco and other summer crops, stands the hot, dry weather particularly well.

Price, $22.50 per ton.

AMMONIATED BUTCHERS BONE PHOSPHATE.

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes; a good article at a low price.

Price, $22.50 per ton.

SOFT GROUND BONE.

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by anyone wanting to restore worn-out land. Try it and be convinced.

Price, $27.00 per ton.

DISSOLVED BONE.

Made from stock containing some meat, thoroughly dissolved, and in fine drilling condition. Farmers wishing a Fertilizer for immediate action will find in this brand a reliable manure of good value, and one whose good effect can be seen for a long time.

Price, $27.00 per ton.

AMMONIATED SOLUBLE BONE.

Made for our Pennsylvania trade exclusively, where it is well and favorably known.

Price, $20.00 per ton.

SOLUBLE BONE PHOSPHATE.

A good cheap Fertilizer. Quite a number of chemists claim that Ammonia adds very much to the cost of Fertilizers without being of much agricultural value; that is, sufficient Ammonia can be obtained from the atmosphere, etc., etc. Whether or not this theory is correct, quite a number of people have used our Soluble Bone with very satisfactory results To supply such a trade we offer the above.

Price, $16.00 per ton.

TOBACCO BED FERTILIZER.

This brand is specially well adapted for use on tobacco beds, containing 10 per cent. of Ammonia and a large percentage of Potash and Phosphoric Acid. A most excellent substitute for Peruvian Guano. In bags, 167 lbs.

$4.00 per bag, $45.00 per ton.

SPECIAL MIXTURE.

A new brand introduced by us this year; a complete Fertilizer, containing Ammonia, Potash and available Phosphoric Acid in proper proportions.

Price, $17.00 per ton.

PERUVIAN GUANO.

10 per cent. goods. In bags of 167 pounds.

Prices on application.

HIGH GRADE ACID PHOSPHATE.

Best grade of S. C. Phosphate, thoroughly dissolved and in good, dry condition.

Prices on application.

KAINIT.

Containing about 25 per cent. Sulphate of Potash. In bags of 200 pounds each.

Prices on application.

MURIATE OF POTASH.

Contains about 80 per cent. of Muriate; is specially adapted for rejuvenating old, worn-out soils, which, when used in connection with other ingredients, makes a good Potato Fertilizer.

Prices on application.

NITRATE OF SODA.

Is very quick in its action, and forces from ten days to two weeks. Should be used after plants have gotton good start; is very soluble, and 200 to 250 pounds to the acre is a good dressing; application should be made in connection with plaster or some similar article.

Prices on application.

LAND PLASTER.

In bags 200 pounds each.

90c. per bag. $7.50 per ton.

FINE GROUND FISH.

Contains a large percentage of Ammonia. A very desirable form, quick in action.

Prices on application.

GROUND TANKAGE.

In good, dry condition, and ground fine.

Prices on application.

PULVERIZED SHEEP MANURE.

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively advise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns, it is unequaled.

5 lbs. 25c.; 10 lbs., 40c.; 30 lbs. $1.00; 50 lbs, $1.50; 100 lbs. $2.50

BONE FLOUR.

Made especially for Florists and Gardeners. This flour is passed through a 30-mesh screen, and is consequently exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample.

Price, $4.00 per bag of 167 lbs.

JADOO FIBRE.

A new material in which every plant thrives without earth.

5 lbs. 30c.; 10 lbs. 50c.; 25 lbs. $1.10; bags of 120 to 130 lbs. 3c. per lb.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.